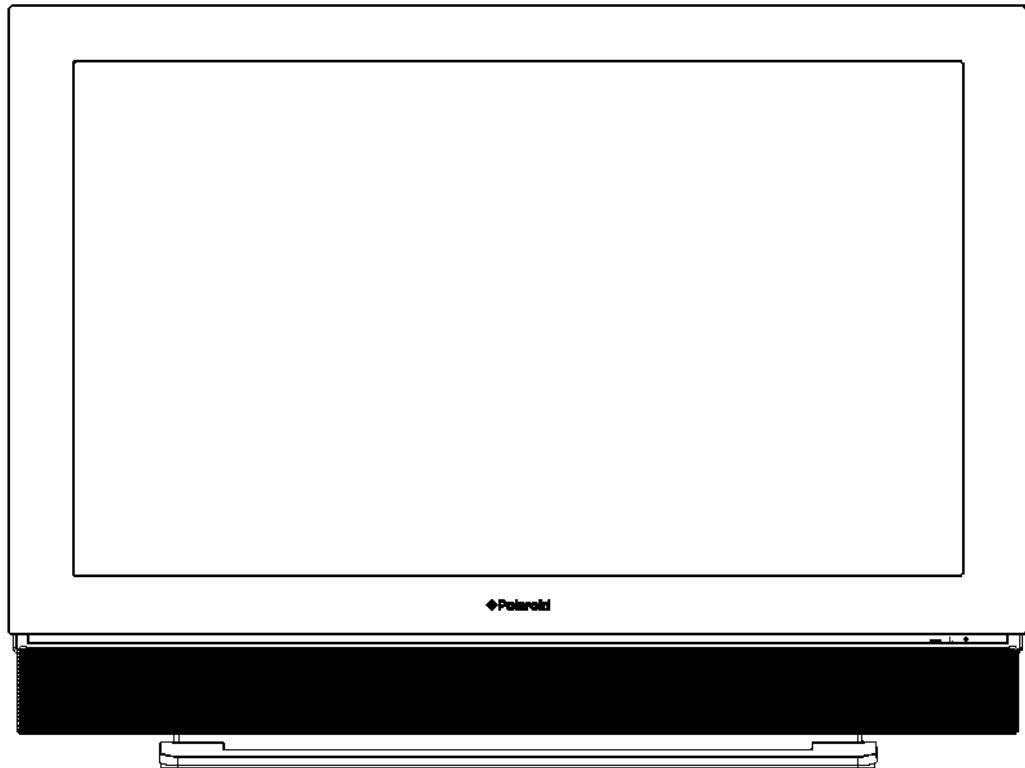


# Service Manual



**Model #: PD-42S(PLA-4260)**

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*Top Confidential*

## Table of Contents

CONTENTS	PAGE
<i>Sections</i>	
1. Features	1-1
2. Specifications	2-1
3. On Screen Display	3-1
4. Factory Preset Timings	4-1
5. Pin Assignment	5-1
6. PDP Block Diagram	6-1
7. Control Board Internal I/O Connections	7-1
8. Remove the Burn-in mark	8-1
9. PDP Trouble Shooting	9-1
10. Spare Parts List	10-1
11. Complete Parts List	11-1

## Appendix

1. Main Board Circuit Diagram
2. Main Board PCB Layout
3. Assembly Explosion Drawing

Block Diagram

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#### FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

#### FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus **Petters** Will not be held responsible for the product and its safety.

#### CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

#### SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

# Chapter 1 Features

---

- Wall-mountable
- New WIDE XGA Plasma Panel: 1024 x 768 (H x V)
- Piano finish
- Removable speaker system
- Extremely thin: less than 100 mm
- Fan-less

# Chapter 2 Product Specification

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## 1. CHARACTERISTICS of PDP module

Type: WXGA PLASMA DISPLAY

Size: 42 inch

Panel: Samsung S42AX-XD02

Active Screen Size (diagonal): 42.32 inches (1,074.91mm)

Outline Dimension: Width 1015mm X Height 613mm X Thickness 67.5 mm

Pixel Pitch : 0.912 mm (H) X 0.693mm (V)

Color Depth 16.77M colors

Power Consumption 380 W + 10% (max)

Weight: 21kgs

## 2. Optical Characteristics

2-1 Viewing Angle > 160° (horizontal) / > 160° (vertical)

2-2 Contrast ratio (panel spec) 3000:1 (Typical)

(w/glass filter) 1500:1 (Typical)

## 3. System connection connectors

24-pin DVI-D, 20-pin DFP

## 4. POWER SUPPLY

Input voltage: 100-240Vac, 50/60Hz

Input current: 4A or less (at AC 120V/60Hz)

Inrush current: 60A at Vac=120V

Power consumption: 420 watts (max)

Stand-by: 5 watts max. (at 120 Vac)

Leakage current: No more than 1.3mA at 254Vac/50Hz for universal version

## 5. Speaker

a. Impedance: 8 Ohm +/- 15%

b. Frequency Range: 75 – 20K Hz

c. Power Input: 15W (max) x2

d. Terminal type: Push switch – polarity: positive (+)/red; negative (-)/black

---

## **6. ENVIRONMENT**

- a. Operating temperature: 5~35°C
- b. Non-operating temperature: -5~50°C
- c. Operating humidity: 20%~70% RH (No condensation)
- d. Non-operating humidity: 20%~90% RH (No condensation)
- e. Operating altitude: 0~6,560 ft
- f. Non-operating altitude: 0~6,560 ft

## **7. OUTLINE DIMENSIONS (with speaker and base)**

- a. Height: 820mm
- b. Width: 1095mm
- c. Depth: 285 mm

## **8. WEIGHT (with speaker and base)**

- a. Net: 49.8 kgs +/- 0.5 kgs
- b. Gross: 66+/- 0.5 kgs (packed together with set-top box)

## **9. Warning/Caution/Notice**

To prevent possible danger, damage and bodily harm, please consider and observe all warnings and cautions contained in this paragraph while handling the product or PDP module only.

This product/PDP module is composed of various kinds of materials such as glass panel, metals and plastics. A qualified service technician is required for the disposal of the module.

### **9.1 Warning**

If you do not consider the following warnings, it could result in death or serious injury.

- (1) Do not use any other power supply voltage other than the voltage specified in this product specifications. If you use power voltage deviated from the specifications, it could result in product failure.
- (2) Do not operate or install under the deviated surroundings from the environmental specification set for the below; in moisture, rain or near water-for example, bath tub, laundry tub, kitchen sink; in a wet basement; or near a swimming pool; and also near fire or heater - for example, near or over radiator or heat resistor; or where it is exposed to direct sunlight; or somewhere like that. If you use the product/PDP module in places mentioned above, it could result in electric shock, fire hazard or product failure.

---

- (3) If any foreign objects (e.g. water, liquid and metallic chip or dust) entered the product/PDP module, the power supply voltage to the product/PDP module must be turned off immediately. Also, never push objects of any kind into the PDP module as they may touch dangerous voltage point or make short circuits that could result in fire hazard or electric shock.
- (4) If smoke, offensive smell or unusual noise should come from the product/PDP Module, the power supply must be turned off immediately. Also, when the screen fails to display any picture after the power-on or during operation, the power supply must be turned off immediately. Do not continue to operate the product/PDP module under these conditions.
- (5) The PDP module is controlled by high voltage about 350V. If you need to handle the module during operation or just after power off, you must take proper precautions against electric shock and must not touch the drive circuit portion and metallic part within 5 minutes. The capacitors in the drive circuit portion remain temporarily charged even after the power is turned off. After turning off the power, you must be sure to wait at least one minute before touching the module. If the remain voltage is strong enough, it could result in electric shock.
- (6) Do not disconnect or connect the PDP module's connector while the power is on, or immediately after power off. Because the module is operated by high voltage, and the capacitors in drive circuit remain temporarily charged even after the power is turned off. If you need to disconnect or reconnect it, you have to wait at least one minute after power off.
- (7) Do not disconnect or connect the power connector by a wet hand. The voltage of the product/PDP module may be strong enough to cause an electric shock.
- (8) Do not damage the power cable. Do not modify it either.
- (9) When the power cable or connector is damaged or frayed, do not use it.
- (10) When the power connector is covered with dust, please wipe it out with a dry cloth before the power on.

---

## 9.2 Caution

If you do not consider the following cautions, it may result in personal injury or damage

- (1) Do not set the product/PDP module on an unstable place, vibrating place and inclined place. The product/PDP module may fall or collapse, and it may cause serious injury to a person, and serious damage to the product.
- (2) If you need to move the product/PDP module to another place, you must turn off the power supply and detach the interface cable and power cable from the product/PDP module beforehand. If the cables are damaged during the transport, it may result in fire hazard or electric shock. Also if the product/PDP module has dropped or fallen, it may cause a serious injury to a person.
- (3) When you draw or insert the cables, you must turn off the power and do it by holding the connector. If you forcibly draw the cable, the electric wire in the cable can be exposed or broken. It may result in fire hazard or electric shock.
- (4) When you carry the product/PDP module, it should be done by at least two persons in order to avoid any unexpected accidents.
- (5) When you carry the product, do not hold the speaker and the bottom of black front bezel to avoid any injuries to a person or damage to the product.
- (6) When you detach the speaker net, do not hold the net surface to avoid deformation. Please hold the edges.
- (7) The product has a glass filter on it and the PDP module has a glass-plate. If the product/PDP module is inflicted with excessive stress – for example: excessive shock, vibration, bending or heat-shock, the glass could be broken. It may result in a personal injury. Also, do not press or strike the glass surface.
- (8) If the glass is broken, do not touch it with bare hand.
- (9) Do not place any objects on the glass panel. It may be the cause of the scratch or breakage.

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(10) When the black front bezel of the product is covered with dust, please use a dry cloth to wipe it off and afterwards may apply water or a natural detergent to a piece of soft cloth or gauze, and wring the cloth tightly to clean.

### **9.3 Additional notice to the operation and handling of the PDP module**

- (1) To prevent defect or failure, please check the cable connections and power-supply condition before power on.
- (2) To ensure reliable operation of the module and to protect it from overheating, do not wrap or cover it with a cloth or like a sheet during power-on. Also don not place the module in a confined space or any other places of poor ventilation.
- (3) The screen is controlled with the display-data signals and synchronized signals. If noise interferes with those signals, the screen could become unstable and in some case would cause a failure. Do not place any equipment that generates excessive EMI/RFI noise near the interface cable of the module.
- (3) Be careful not to break the glass panel when you handle the module. Also when handling the module, you must wear gloves or other hand protection to prevent injuries that can occur in case the glass is broken.
- (4) The glass panel section and drive circuit section of the module are closely connected and they function as a pair. If the module is arbitrarily recombined, restructured, or disassembled. AmTRAN will not be responsible for the function, quality or operational integrity of the modified module. Please do not recombine, restructure, or disassemble it.
- (5) To avoid a possible electric shock, you must make sure that the power supply of this module is turned off before cleaning. To clean the module's panel, apply water or a natural detergent to a piece of soft cloth or gauze, and wring the cloth tightly before wiping the screen. Make sure that no water comes in contact with the connecting terminals on the side of the glass panel. Do not use chemical solvents, such as painter thinner or benzene to clean the glass panel.

---

(6) When storing the module, you must select an environmentally controlled space.

Avoid any environment in which the temperature or humidity exceeds the specification values. If you are storing the module for a long period of time, we recommended that you place the module together with a dehumidifying agent, such as silica gel, in a moisture-proof bag and keep it in an environmentally controlled place.

#### **9-4 Notice to handling the glass filter**

- (1) When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with wellion-blown equipment or in such a condition, etc.
- (2) To clean the glass filter, you may follow the methods of PDP module mentioned above.

# Chapter 3 On Screen Display

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## Main unit button

STANDY/ON

VOLUME +

VOLUME -

CHANNEL +

CHANNEL -

INPUT

## OSD Adjustment

### Inputs

PC

DVI-HDCP

VIDEO 1

VIDEO 2

VIDEO 3

VIDEO 4

VIDEO 5

TV

### 1. VIDEO

#### A. PICTURE MODE

1. MOVIE

2. STANDARD

3. VIVID

4. SPORTS

#### B. BRIGHTNESS (0~100) (default:50)

#### C. CONTRAST (0~100) (default:50)

#### D. SATURATION (0~100) (default:50)

#### E. HUE (-50~50) (default:0)

#### F. SHARPNESS (0~14)

### 2. PC

#### A. AUTO( YES/NO)

#### B. COLOR TEMP (WARM/NORMAL/COOL)

#### C. CLOCK (0~100)

#### D. PHASE (0~255)

#### E. POSITION

1. X (0~100,step 1)

2. Y(0~100,step 1)

3. AUDIO

- A. BASS (0~100)
- B. TREBLE (0~100)
- C. BALANCE (-10~10)
- D. SRS TS XT (OFF/ON)

4. PIP

- A. PIP POSITION
  - 1. X (0~100, step:1)
  - 2. Y (0~100, step:1)
- B. PIP SIZE
  - 1. OFF
  - 2. SMALL
  - 3. MEDIUM
  - 4. PBP

5. TV

- A. SYSTEM
  - 1. ANTENNA
  - 2. STANDARD - CABLE
  - 3. HRC - CABLE
  - 4. IRC – CABLE
- B. CHANNEL EDIT
  - 1. AUTO PROGRAM
  - 2. ADD
  - 3. DELETE

---

6. PARENTAL

- A. LOCK MENU
- B. NEW PASSWORD
- C. MPAA RATING (NA/ G/ PG/ PG-13/ R/ NC-17/ X)
- D. TV PG RATING
  - 1. NONE
  - 2. TV-Y
  - 3. TV – Y7 (F VIOLENCE)
  - 4. TV - G
  - 5. TV – PG (VIOLENCE /SEXUAL CONTENT/FOUL LANGUAGE/ SUGGESTIVE DIA)
  - 6. TV – 14 (VIOLENCE/ SEXUAL CONTENT/ FOUL LANGUAGE/ SUGGESTIVE DIA)
  - 7. TV-MA (VIOLENCE/ SEXUAL CONTENT/FOUL LANGUAGE)

7. SETTING

- A. OSD LANGUAGE (ENGLISH/ FRANÇAIS/ESPAÑOL)
- B. FIRMWARE VER (Vx.xx)
- C. RESTORE DEFAULT (YES/ NO)
- D. TRANSPARENCY
- E. CC CONTROL (ON/OFF)
- F. MODE (CC1/CC2/CC3/CC4/TEXT1/TEXT2/TEXT3/TEXT4)

8. DISPLAY (BOX/ SHADOW)

# Chapter 4 Factory preset timings

---

This timing chart is preset for the Digital plasma monitor.

Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Horizontal Sync Polarity (TTL)	Vertical Sync Polarity (TTL)	Pixel Rate (MHz)	Remark
1	1024x768	60	48.363	60.004	N	N	65.000	Windows

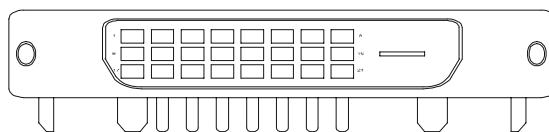
Remark: 1. N: negative,

2. This device has no scalars. Some DVI cards will lead to 1 pixel shift even with the same resolution.

# Chapter 5 Pin Assignment

The plasma monitor uses a 24-pin DVI-D connector as a video input interface while connecting to the PLA-4260 set-top box with a system cable.

Pin Number	Signal Name	Pin Function
1	RX2-	TMDS negative differential input, channel 2
2	RX2+	TMDS positive differential input, channel 2
3	GND	Logic Ground
4	Reserved 4	Reserved. No connection
5	Reserved 5	Reserved. No connection
6	DDC-CLK	DDC2B Clock
7	DDC-DAT	DDC2B Data
8	Reserved 8	Reserved. No connection
9	RX1-	TMDS negative differential input, channel 1
10	RX1+	TMDS positive differential input, channel 1
11	GND	Logic Ground
12	Reserved 12	Reserved. No connection
13	Reserved 13	Reserved. No connection
14	VCCX	Power
15	GND	Logic Ground
16	SENS	SENSE Pin, Pull High
17	RX0-	TMDS negative differential input, channel 0
18	RX0+	TMDS positive differential input, channel 0
19	GND	Logic Ground
20	Reserved 20	Reserved. No connection
21	Reserved 21	Reserved. No connection
22	GND	Logic Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock

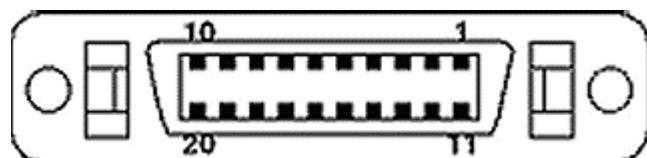


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The plasma monitor uses a 20-pin DFP connector as an audio input interface and system control while connecting to the PLA-4260 set-top box with a system cable.

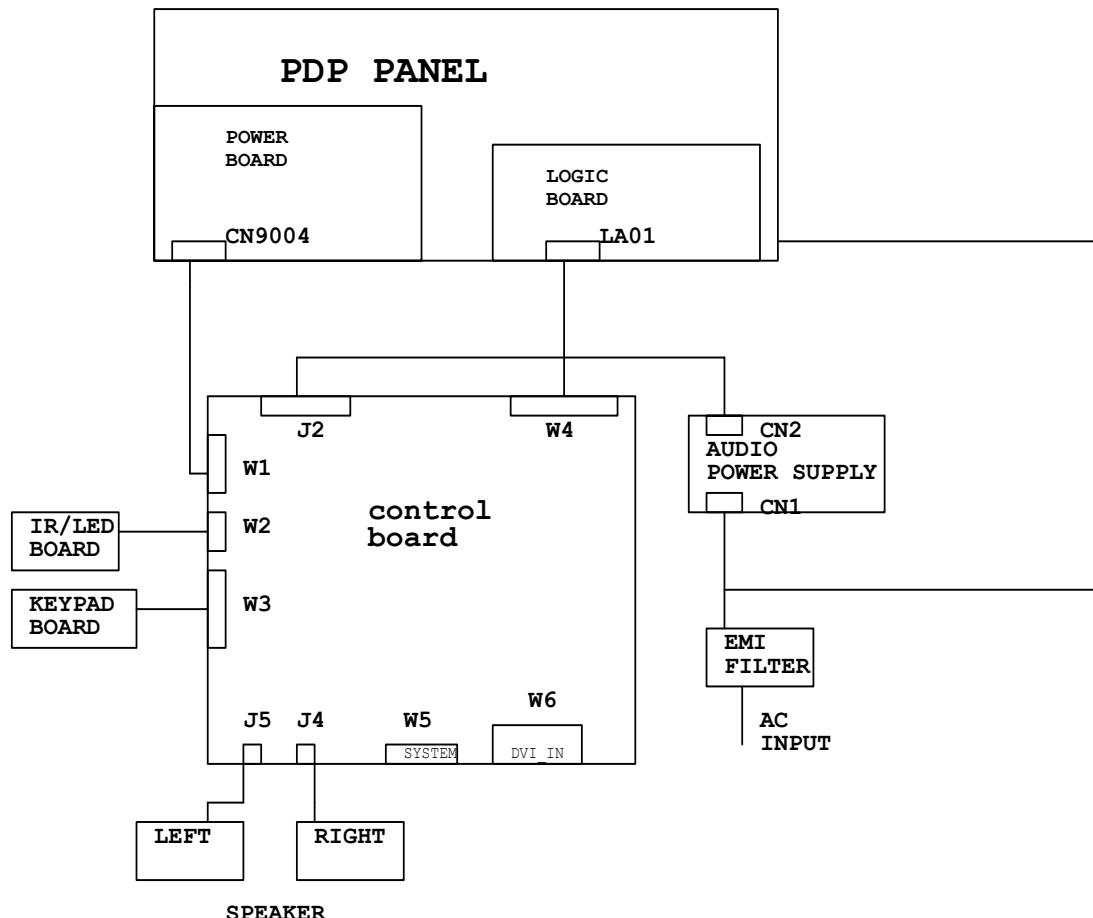
Pin Number	Pin Function	Pin Number	Pin Function
1	IR	11	Audio_R
2	Ground	12	N.C
3	Ground	13	Ground
4	DB15_Hot Plug	14	+3.3V
5	+5V	15	+5V
6	N.C	16	SDO/TDO (CPLD ISP Pin)
7	TxD	17	SDI/TDI (CPLD ISP Pin)
8	RxD	18	MODE/TMS (CPLD ISP Pin)
9	Audio_L	19	Ground
10	N.C	20	SCK/TCK (CPLD ISP Pin)

Remarks : 16,17,18,20 (CPLD In system programmable)



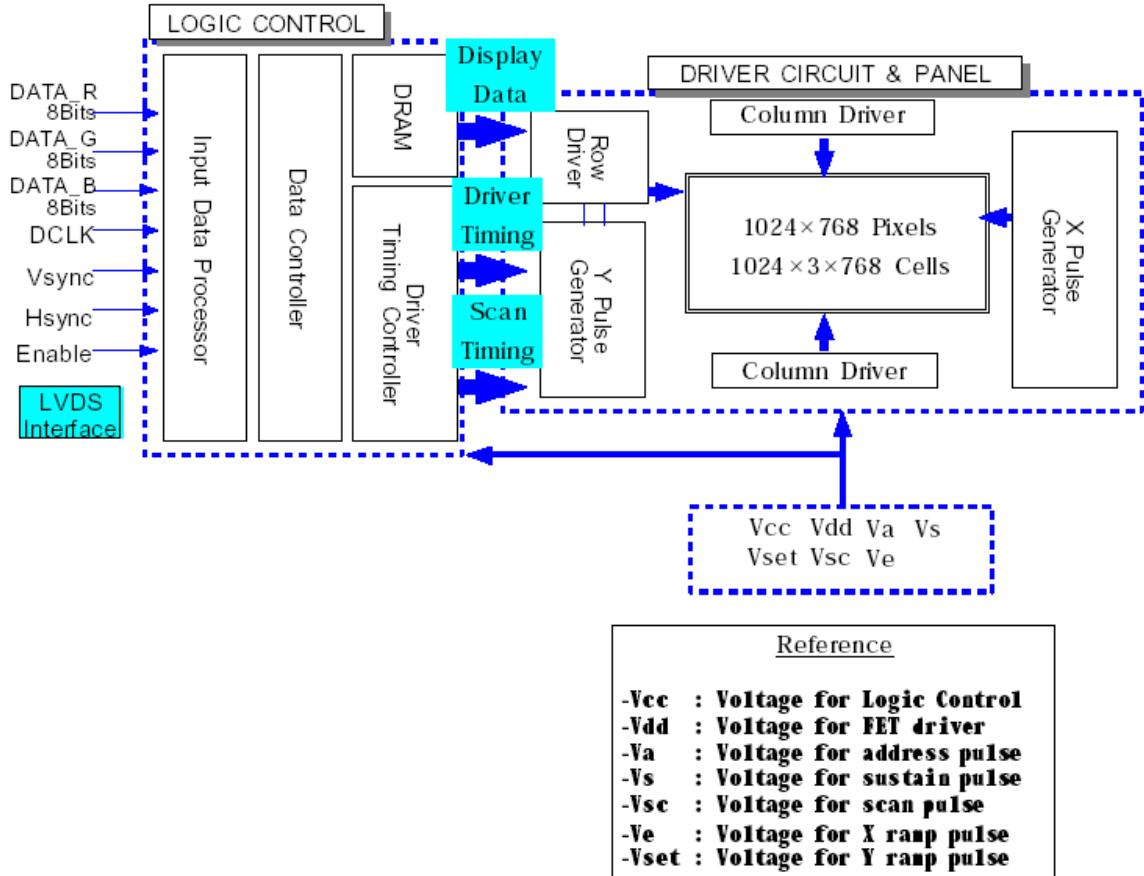
# Chapter 6 PDP Block Diagram

## System Block Diagram



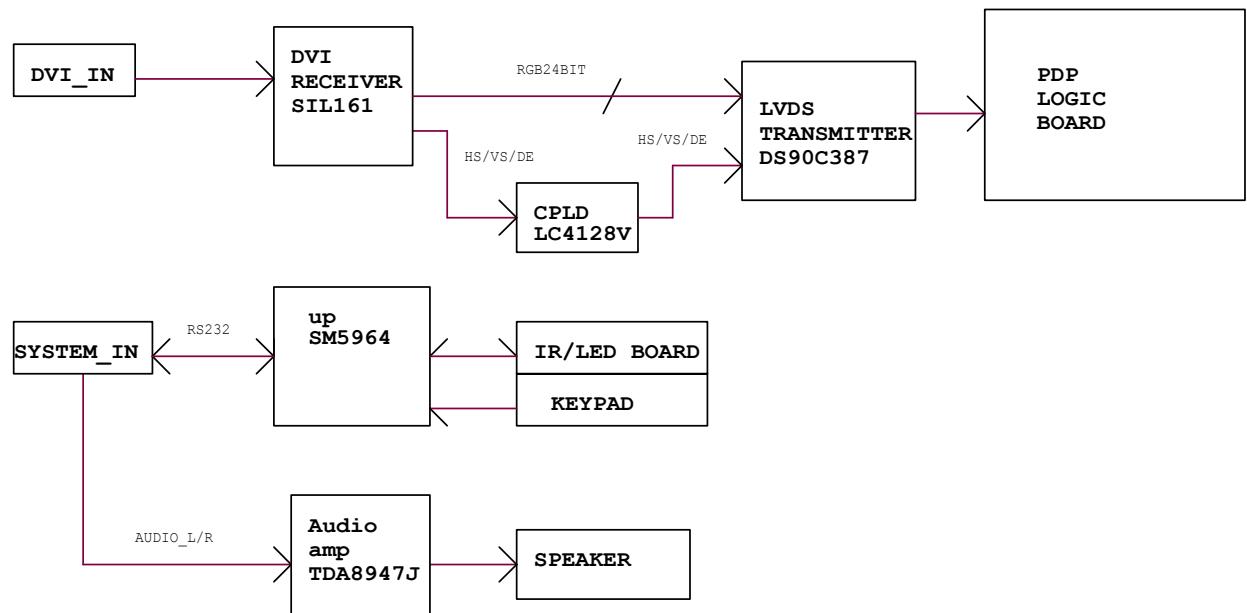
The PDP system block diagram is powered by AC source of 100V~240V AC +/- 10% @ 50/60 HZ ,another audio power supply that transforms AC source of 100V~240V AC +/- 10% @ 50/60 HZ into DC 18V source. The DC 18V source supplies the audio AMP of control board. The digital IC parts of control board is powered by DC 5V from PDP panel side.

## PDP panel Block Diagram



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## Control board Block Diagram



# Chapter 7 Control Board Internal I/O Connections

---

## W1 CONNECTION (TOP→BOTTOM) "DC POWER INPUT/OUTPUT"

Pin	Description
1	“+5VSB_INPUT”
2	“+5VSB_INPUT”
3	“+5VSB_INPUT”
4	“D_GND”
5	“D_GND”
6	“D_GND”
7	“PDP_RELAY_ON”
8	N.C.

## W2 CONNECTION (TOP→BOTTOM) “IR/LED\_BOARD\_CONTROL”

Pin	Description
1	“+5VSB_OUTPUT”
2	“IR_DATA_IN”
3	“LED_BLUE”
4	“D_GND”
5	“LED_RED”
6	N.C.

## W3 CONNECTION (TOP→BOTTOM) “KEY\_PAD”

Pin	Description
1	“POWER_KEY”
2	“N.C.”
3	“N.C.”
4	“VOL_-KEY”
5	“GND”
6	“VOL+_KEY”
7	“CH-_KEY”
8	“CH+_KEY”
9	“SOURCE”

---

W4 CONNECTION (RIGHT->LEFT)"VIDEO(LVDS) SIGNAL TRANSMITION"

Pin	Description
1	"D_GND"
2	"N.C."
3	"D_GND"
4	"N.C."
5	"N.C."
6	"D_GND"
7	"D_GND"
8	"N.C."
9	"N.C."
10	"N.C."
11	"N.C."
12	"N.C."
13	"N.C."
14	"D_GND"
15	"N.C."
16	"N.C."
17	"TXD+"
18	"TXD-"
19	"TXCLK+"
20	"TXCLK-"
21	"D_GND"
22	"TXC+"
23	"TXC-"
24	"TXB+"
25	"TXB-"
26	"TXA+"
27	"TXA-"
28	"D_GND"
29	"D_GND"
30	"D_GND"

---

J2 CONNECTION (RIGHT→LEFT) “AUDIO\_POWER\_INPUT”

Pin	Description
1	“+18V”
2	“+18V”
3	“+18V”
4	“A_GND”
5	“A_GND”
6	“A_GND”

J4 CONNECTION (RIGHT→LEFT) “SPEAKER\_OUT”

Pin	Description
1	“RIGHT-”
2	“RIGHT+”

J5 CONNECTION (RIGHT→LEFT) “SPEAKER\_OUT”

Pin	Description
1	“LEFT+”
2	“LEFT-”

# Chapter 8 Remove the Burn-in mark

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To remove burn-in mark on the PDP

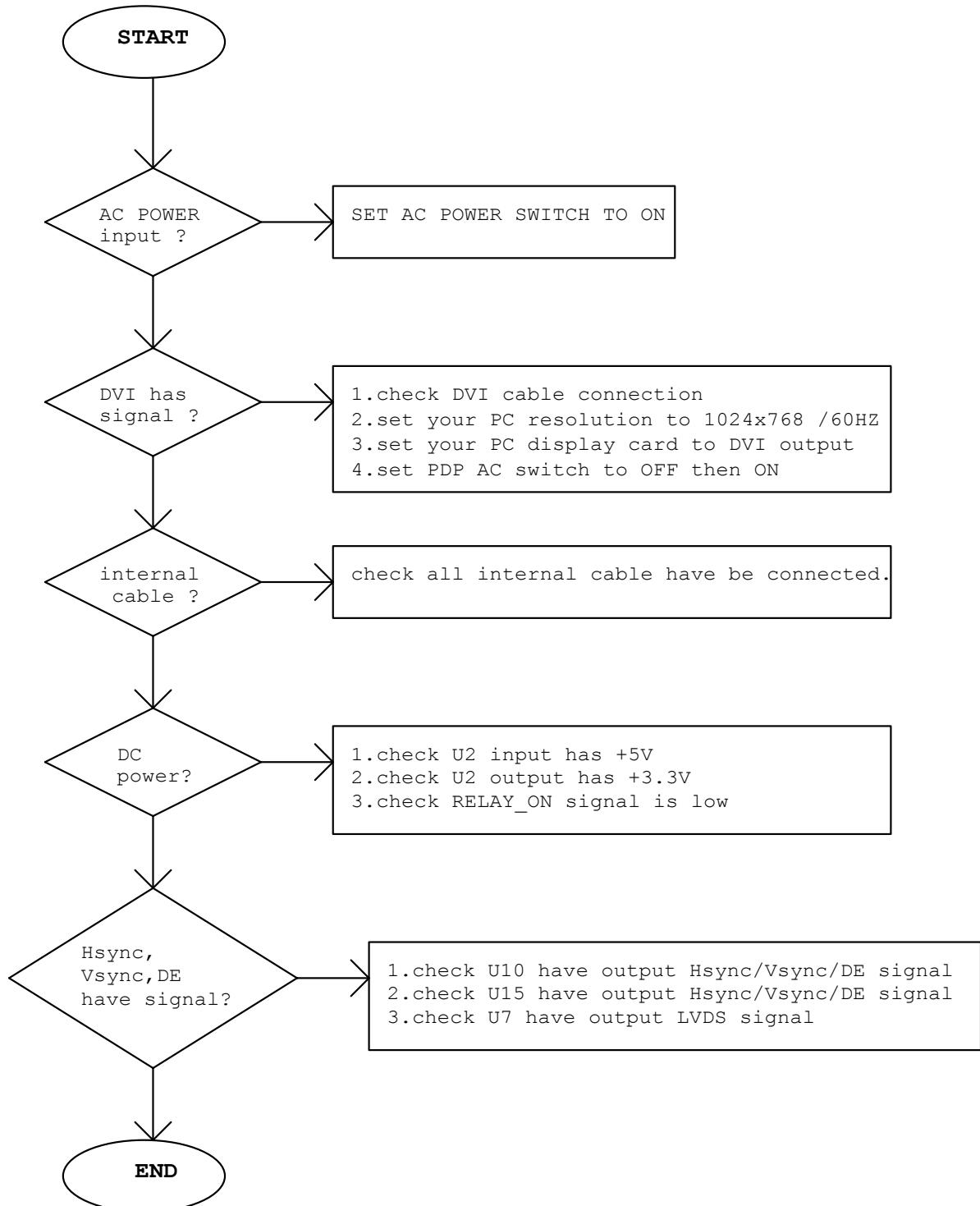
- 1 Be sure the set-top box is connected well.
- 2 Select TV as main source.
- 3 Turn off PIP window if any.
- 4 Press the password on the remote control:

**“SWAP” -> “UP” -> “UP” -> “DOWN” -> “DOWN” -> “SELECT”**

- 5 Burn-in mode starts. You will see red, green, blue and white screens display.  
Keep them displaying at least 8 hours.
- 6 Press “EXIT” key to exit the burn-in mode and check if the mark is still visible. If so, you may carry on the steps from 10.4.

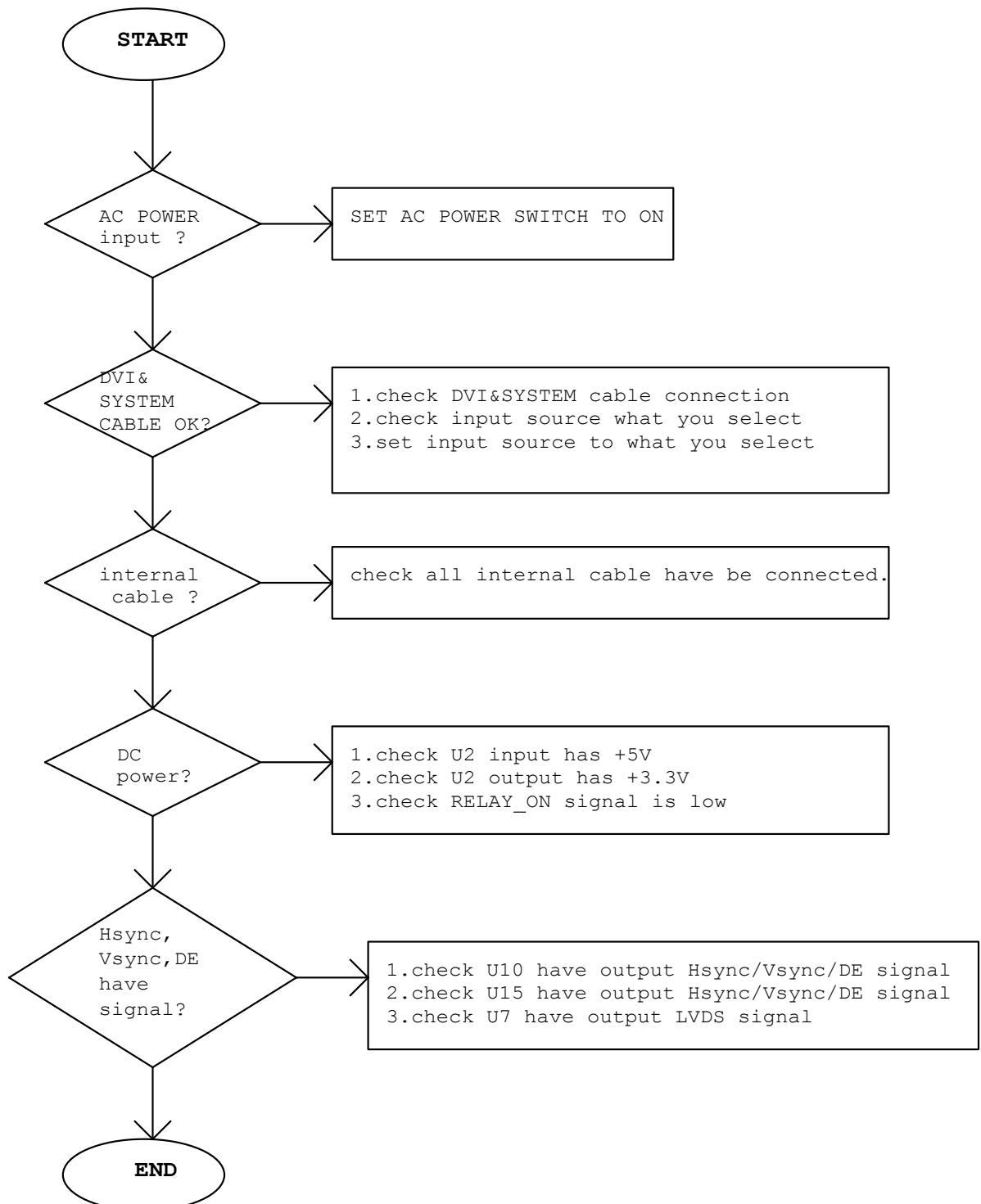
# Chapter 9 PDP Trouble Shooting

PDP DISPLAY NOTHING(MONITOR ONLY WIHOUT BOX)



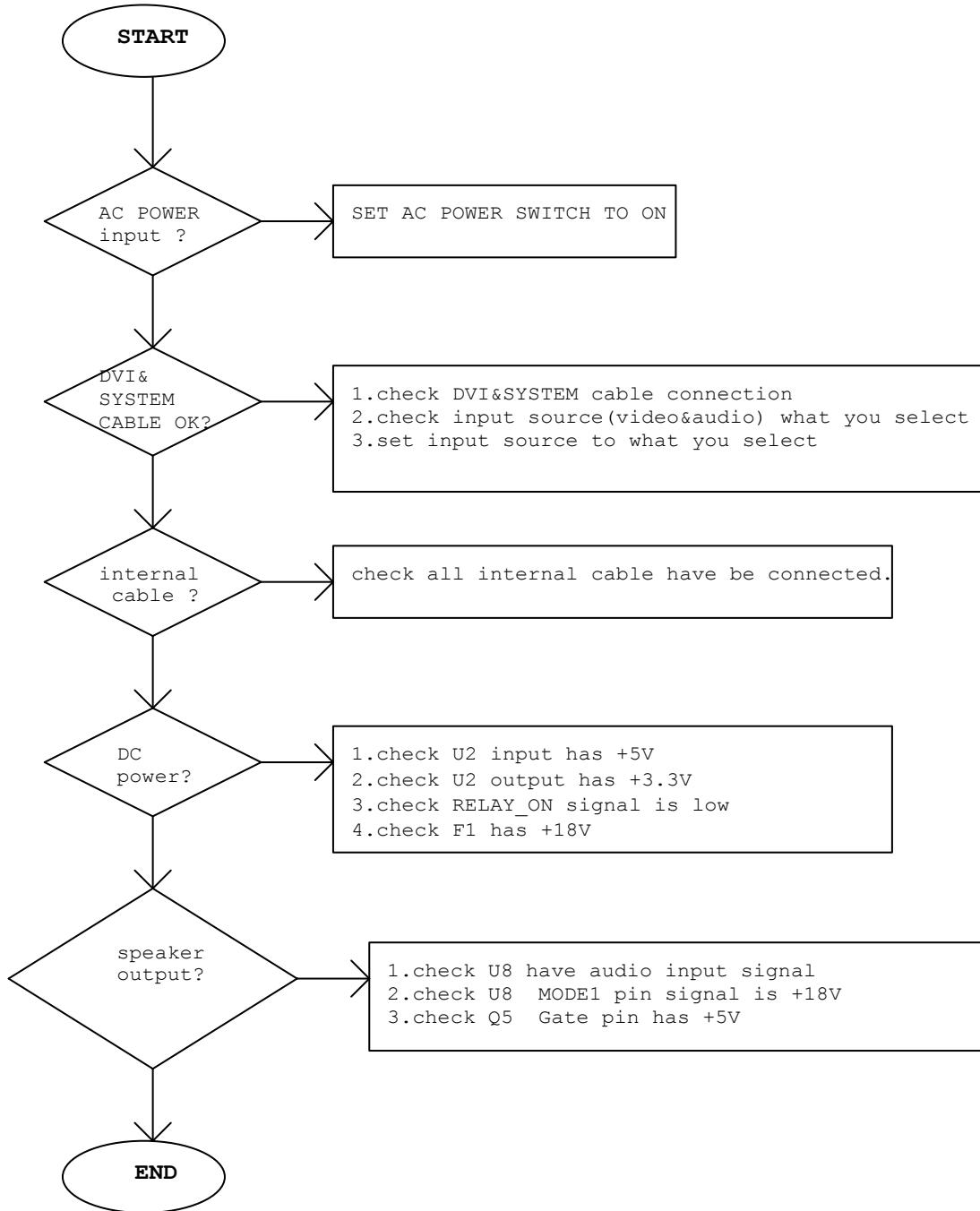
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## PDP DISPLAY NOTHING( WITH BOX)



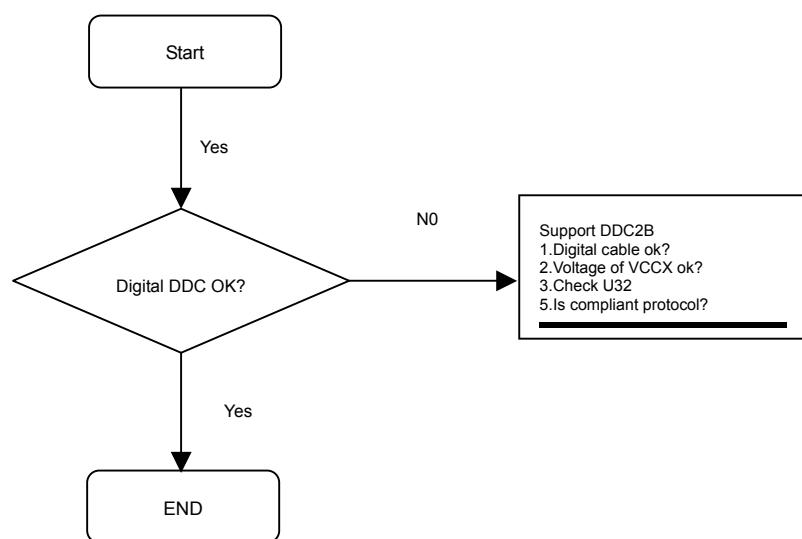
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## PDP No SOUND( WITH BOX)



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## TROUBLE OF DDC READING



# Chapter10 Spare Parts List

## PD-42S / PLA-4260

PART NO	DESCRIPTION	LOC	QTY	REMARK
0185-1402-0003	FUSE 125V/4A SMD (R451004)	F1	1	
0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	Q10,Q2	2	
0420-2003-1626	MOSFET P-CH 9A 30V P2003EV SOP-8	Q1	1	
0430-4009-3109	IC TDA8947J DIP 17PIN	U8	1	
0430-6005-6004	IC LM1117MPX-ADJ SMD 3PIN (SOT-223)	U2	1	
1801-0117-4010	FRONT BEZEL (PD-42S)(ABS, 877C) ASS'Y		1	
1925-1000-2150	CUSHION-R (AVC42)		2	
1925-1000-2170	EPE FOAM-B (PD-42S)		1	
1925-1000-2180	EPE FOAM-T (PD-42S)		1	
1925-1000-2430	EPE FOAM-F (PD-42S)		1	
1925-1100-1760	PE BAG (1300.0*1200.0*0.4t)(PD-42S)		1	
1925-1200-6850	CARTON BLANK (PD-42S)		1	
1925-1200-7210	ACCESSARY BOX (366.0L*232.0D*71.0H)		1	
1925-1900-0490	GUARDBOARD 40.0*40.0*430.0mm (PD-42S)		4	
1947-1200-0400	ACETATE CLOTH TAPE ( 醋酸布膠帶 ) 20*45mm		5	
1947-1200-2290	Insulator (300*150*0.25t)		1	
1947-1200-2300	Insulator (8*170*0.25t)		1	
1947-1400-0110	SPEAKER FRONT BEZEL NET (PD-42S)		1	
1947-1500-2160	PANEL CUSHION 950.0*10.0*7.0mm (PD-42S)		2	
1947-1500-2170	PANEL CUSHION 550.0*10.0*7.0mm (PD-42S)		2	
1947-1500-2180	SPONGE (PD-42S)		4	
1947-1700-0240	GASKET BLOCK (40*4.0*1.0)		2	
1947-1700-1100	GASKET BLOCK (20.0*13.0*10.0)		2	
1947-1800-0150	GASKET EMI (17*25*210mm)		6	
1947-1800-0240	GASKET EMI (5*1*100mm)		2	
1947-1800-0370	GASKET BLOCK (5.5H*10.0W*30.0Lmm)		1	
1947-1800-0670	Gasket Block (10W*3H*80L mm)		7	
1947-1800-0690	Gasket Block (20W*0.3H*583L mm)		2	
1947-1800-0700	Gasket Block (20W*0.3H*983L mm)		2	
1947-1800-0710	Gasket Block (17.0W*1.0H*41.0L)		2	
1947-1800-0780	Gasket Block (5W*2H*300L)		1	
1947-1900-0030	HEATPATH (25x14mm)		1	

PART NO	DESCRIPTION	LOC	QTY	REMARK
1947-2400-0010	SPEAKER LOWER ASS'Y (PD-42S)		1	
3842-0012-0154	PDP CONTROL BD ASS'Y (PD-42S)			
3842-0012-0307	SWITCH ASS'Y (PD-42S)			
3842-0022-0156	PDP DISPLAY BD ASS'Y (PD-42S)			
3842-0032-0189	PDP IR BD ASS'Y (PD-42S)			

# Chapter 11 Complete Parts List

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2842-4203-0004 Plasma monitor 42" (PD-42S)(ABS,BLACK)

ITEM	M/S	LOCATION	PART NO.	DESCRPTION	QTY
1			3842-0022-0301	PDP BASE ASS'Y (PD-42S)(ABS, 877C)	1
2			3842-0022-0303	PDP CHASSIS ASS'Y (PD-42S)	1
3			3842-0022-0312	PDP PACKING ASS'Y (PD-42S)	1

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3842-0022-0301 PDP BASE ASS'Y (PD-42S)(ABS, 877C)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			1701-0515-1010	Base Cover (PD-42S)(ABS, 5108M)	1
2			1701-1000-0350	BASE FOOT ( φ 30.0mm t=1mm)(PD-42S)	6
3			1712-0100-6790	Base Plate (SECC t=2.2mm)(PD-42S)	1
4			1712-1200-0070	BASE Die (PD-42S)	2
5			1720-1306-1850	MAC. SCREW-MPSW M6.0*18.0L, BLK- Ni	8
6			1720-3006-1550	MAC. SCREW-MF M6.0*15.0L, BLK-Ni	8
7			1721-3047-1220	TAP SCREW-MF #4.7*12.0L, Ni	14
8			1947-1400-0110	SPEAKER FRONT BEZEL NET (PD-42S)	1
9			1947-2400-0010	SPEAKER LOWER ASS'Y (PD-42S)	1

## 3842-0022-0303 PDP CHASSIS ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0213-0420-0967	PDP MODULE 42" S42AX-XD02 (SAMSUNG)	1
2			0220-8020-0881	SW ROCKERSW 250V 6A 2P HF606A1BBATA	1
3			0260-0000-0210	LINE FILTER ASS'Y 6A 06DBDW3S-AM01	1
4			0460-1006-0202	WH PH6P-PH5P 1061#26 600mm CORE*1 SHIELDING	1
5			0460-1009-0411	WH PH9P-PH7P+SRA4.3*2 1061#26 710mm CORE*1	1
6			0460-1106-0160	WH XH6P-XH6P 1007#24 250mm	1
7			0460-1211-0020	WH 35572-11P-XH8P 2P 120mm	1
8			0460-3430-0540	WH FI-W31S/DF14-30S 20276#30 160mm	1
9			0500-0502-0030	POWER BD ASS'Y 18V 4.5A (0432D1881)	1
10			1701-0414-9010	Button (PD-42S)(ABS, 877C)	1
11			1701-0900-1300	Samsung 42" PDP EMI Filter ,Mesh Type (42S3)	1
12			1701-0900-1350	WASHER (FR63, 0.5t)(F19R31)	4
13			1701-1500-0450	WIRE SADDLE (CH-01B)	8
14			1701-1919-1010	HANDLE (PC+ABS, Black)(PD-42S)	2
15			1712-0100-4590	HEAT SINK FIX MTEAL (TM-30A)	1
16			1712-0100-6740	Filter Clip (SECC t=1.0MM)(PD-42S)	10
17			1712-0100-6750	Main Frame Lateral High (SECC t=2.0mm)(PD-42S)	1
18			1712-0100-6760	Main Frame Cross (SECC t=2.0MM)(PD-42S)	2
19			1712-0100-6770	Rear Cover ( SECC t=1.0mm)(PD-42S)	1
20			1712-0100-6780	Flat Metal (SECC t=1.0mm)(PD-42S)	2
21			1712-0100-6930	PCB Supportor (PD-42S)(SECC t=1.0mm)	1
22			1712-0100-6940	I/O Bracket (PD-42S)(SECC t=1.0mm)	1
23			1712-0100-7480	Main Frame Lateral Low (SECC t=2.0mm)(PD-42S)	1
24			1712-0400-0720	HEAT SINK (PD-42S)	1
25			1712-1200-0060	Stand Frame (PD-42S)	2
26			1720-0003-0620	MAC. SCREW-MB M3.0*6.0L,Ni	16
27			1720-0004-1210	MAC. SCREW M4.0*12.0L, Zn-Cc	12
28			1720-1006-0820	MAC. SCREW-MP M6.0*8.0L, Ni	8
29			1720-1204-0820	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
30			1720-1503-0620	MAC. SCREW-MPSWF M3.0*6.0L Ni	4

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
31			1720-1505-1550	MAC. SCREW-MPSFW M5.0*15.0L, BLK-Ni	4
32			1720-5003-0550	MAC. SCREW-MI M3.0*5.0L, BLK-Ni	9
33			1720-7344-0820	MAC. SCREW-MHSW #4-40*8.0L,Ni	2
34			1721-0003-1050	TAP. SCREW-TB #3*10.0L, BLK-Ni	4
35			1721-0004-1050	TAP. SCREW-TP #4.0*10.0L, BLK-Ni	52
36			1721-5003-0520	TAP. SCREW-TI M3.0*5.0L,Ni	32
37			1801-0117-4010	FRONT BEZEL (PD-42S)(ABS, 877C) ASS'Y	1
38			1812-0100-6690	FiLTER BKT ASS'Y (PD-42S)	1
39			1947-1200-0400	ACETATE CLOTH TAPE ( 醋酸布膠帶 ) 20*45mm	5
40			1947-1200-2290	Insulator (300*150*0.075t)	1
41			1947-1200-2300	Insulator (8*170*0.215t)	1
42			1947-1500-2160	PANEL CUSHION 950.0*10.0*7.0mm (PD-42S)	2
43			1947-1500-2170	PANEL CUSHION 550.0*10.0*7.0mm (PD-42S)	2
44			1947-1500-2180	SPONGE (PD-42S)	4
45			1947-1700-0240	GASKET BLOCK (40*4.0*1.0)	2
46			1947-1700-1100	GASKET BLOCK (20.0*13.0*10.0)	2
47			1947-1800-0150	GASKET EMI (17*25*210mm)	6
48			1947-1800-0240	GASKET EMI (5*1*100mm)	2
49			1947-1800-0370	GASKET BLOCK (5.5H*10.0W*30.0Lmm)	1
50			1947-1800-0670	Gasket Block (10W*3H*80L mm)	7
51			1947-1800-0690	Gasket Block (20W*0.3H*583L mm)	2
52			1947-1800-0700	Gasket Block (20W*0.3H*983L mm)	2
53			1947-1800-0710	Gasket Block (17.0W*1.0H*41.0L)	2
54			1947-1800-0780	Gasket Block (5W*2H*300L)	1
55			1947-1900-0030	HEATPATH (25x14mm)	1
56			3842-0012-0154	PDP CONTROL BD ASS'Y (PD-42S)	1
57			3842-0012-0307	SWITCH ASS'Y (PD-42S)	1
58			3842-0022-0156	PDP DISPLAY BD ASS'Y (PD-42S)	1
59			3842-0032-0189	PDP IR BD ASS'Y (PD-42S)	1

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## 3842-0022-0312 PDP PACKING ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			1925-1000-2150	CUSHION-R (AVC42)	2
2			1925-1000-2170	EPE FOAM-B (PD-42S)	1
3			1925-1000-2180	EPE FOAM-T (PD-42S)	1
4			1925-1000-2430	EPE FOAM-F (PD-42S)	1
5			1925-1100-1760	PE BAG (1300.0*1200.0*0.4t)(PD-42S)	1
6			1925-1200-6850	CARTON BLANK (PD-42S)	1
7			1925-1900-0490	GUARDBOARD 40.0*40.0*430.0mm (PD-42S)	4
8			3842-0012-0393	PDP ACCESSORY ASS'Y (PD-42S)	1

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3842-0012-0154 PDP CONTROL BD ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			384200120154A	PDP CONTROL BD ASS'Y (PD-42S) AI	1
2			384200120154M	PDP CONTROL BD ASS'Y (PD-42S) MI	1
3			384200120154S	PDP CONTROL BD ASS'Y (PD-42S) SMD	1

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3842-0012-0307 SWITCH ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0220-6020-0186	SW PUSH Terminal DIP 2PIN	2
2			0242-0225-1504	HEAT S-T 2.0*0.25 15MM 125'	4
3			0460-1102-0072	WH XH2P-NC 1007#24 540mm CORE*2	1
4			0460-1102-0082	WH XH2P-NC 1007#24 400mm CORE*2	1

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3842-0012-0393 PDP ACCESSORY ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0320-4000-0140	POWER CORD 1800mm 110V UL/CSA (BLK)(N.M.)	2
2			0321-0000-0251	DVI/D TYPE CABLE 3000mm BLK core*4	1
3			1925-1200-7210	ACCESSORY BOX (366.0L*232.0D*71.0H)	1

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## 3842-0022-0156 PDP DISPLAY BD ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0170-1740-1182	PCB DISPLAY BD V0 165.0*16.2*1.6t S (PD-42S)	1
2		SWK1	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
3		SWK2	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
4		SWK3	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
5		SWK4	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
6		SWK5	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
7		SWK6	0220-7020-0965	SW TACT 6*6mm 180' 160g SFKHHAM2520	1
8		W1	0451-2000-0766	WAFER 2.00MM 7P 90' KINK (STM)	1

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3842-0032-0189 PDP IR BD ASS'Y (PD-42S)

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			384200320189A	PDP IR BD ASS'Y (PD-42S) AI	1
2			384200320189M	PDP IR BD ASS'Y (PD-42S) MI	1
3			384200320189S	PDP IR BD ASS'Y (PD-42S) SMD	1

3842-0012-0154A PDP CONTROL BD ASS'Y (PD-42S) AI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1		C3	0102-2102-1212	E/C L-L 1000uF/16V 105' NF-T 10*16 (KY)	1
2	SS		0103-6102-1212	E/C HF 1000uF 16V 105'C F (10*20)	
3		C5	0103-1471-1211	E/C VZ 470uF 16V 105'C F-T (8*11.5mm)	1
4		C50	0102-2102-1312	E/C L-L 1000UF 25V 105' F (KY TYPE)	1
5		C54	0103-1220-1511	E/C VT 22uF 50V 105'C F-T (5*11mm)	1
6		C56	0103-1229-1511	E/C VT 2.2uF 50V 105'C F-T (5*11mm)	1
7	SS		0101-1229-1511	E/C GEN. 2.2UF 50V 105' F	
8		C57	0102-2221-1311	E/C L-L 220uF/25V 105' F 8*11.5 (KY)	1
9		C68	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
10		C69	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
11	SS		0101-1470-1211	E/C GEN. 47UF 16V 105' F	
12		C70	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
13	SS		0101-1470-1211	E/C GEN. 47UF 16V 105' F	
14		C8	0103-1101-1211	E/C VZ 100uF 16V 105'C F-T (5*11mm)	1
15		C84	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
16	SS		0101-1470-1211	E/C GEN. 47UF 16V 105' F	
17		C85	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
18	SS		0101-1470-1211	E/C GEN. 47UF 16V 105' F	
19		C86	0103-1470-1211	E/C VT 47uF 16V 105'C F-T (5*11mm)	1
20	SS		0101-1470-1211	E/C GEN. 47UF 16V 105' F	
21		D22	0390-6002-8272	SCHOTTKY DIODE 1A 40V SB140	1

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## 3842-0012-0154M PDP CONTROL BD ASS'Y (PD-42S) MI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1	JP1		0455-2540-0479	PIN HEADER 2*2P 2.54mm 180'	1
2	J2		0451-2500-0616	WAFER 2.50MM 6P 180' KINK (STM)	1
3	J4		0451-2500-0216	WAFER 2.50mm 2P 180' KINK (STM)	1
4	J5		0451-2500-0216	WAFER 2.50mm 2P 180' KINK (STM)	1
5	U8		0430-4009-3109	IC TDA8947J DIP 17PIN	1
6	W1		0451-2500-0816	WAFER 2.50MM 8P 180' KINK (STM)	1
7	W2		0451-2000-0606	WAFER 2.00MM 6P 180'KINK	1
8	W3		0451-2000-0906	WAFER 2.00MM 9P 180'KINK (STM)	1
9	W5		0303-5000-2004	CONN D-TYPE 20PIN	1
10	W6		0302-3010-0240	DVI CONN R/A D 24PIN (DV2R024N11)	1
11	Y1		0280-2400-0115	X'TAL 24MHz 49/US 30PPM CL:18PF	1

**3842-0012-0154S PDP CONTROL BD ASS'Y (PD-42S) SMD**

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0171-2141-0062	PCB CONTROL BD FR4 165.0*150.0*1.6t D (PD-42S)	1
2		CP1	0111-5103-5121	ARRAY CAP 0.01uF 50V X7R 8PIN	1
3		CP2	0111-5103-5121	ARRAY CAP 0.01uF 50V X7R 8PIN	1
4		C100	0112-3471-5106	C/M Multi. 470PF 50V NPO 0603	1
5		C101	0112-3471-5106	C/M Multi. 470PF 50V NPO 0603	1
6		C102	0112-3471-5106	C/M Multi. 470PF 50V NPO 0603	1
7		C21	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
8		C22	0112-3106-1614	C/M MULTI 10uF 16V X7R 1206	1
9		C23	0112-3150-5106	C/M MULTI 15PF 50V NPO 0603	1
10		C24	0112-3150-5106	C/M MULTI 15PF 50V NPO 0603	1
11		C25	0112-3106-1614	C/M MULTI 10uF 16V X7R 1206	1
12		C26	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
13		C27	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
14		C28	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
15		C29	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
16		C30	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
17		C31	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
18		C32	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
19		C33	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
20		C34	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
21		C35	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
22		C36	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
23		C37	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
24		C40	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
25		C41	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
26		C42	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
27		C43	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
28		C44	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
29		C45	0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
30		C49	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
31	C53		0112-3474-2515	C/M Multi. 0.47UF 25V X7R 0805	1
32	C58		0112-3105-2514	C/M Multi. 1.0uF 25V X7R 1206	1
33	C6		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
34	C65		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
35	C66		0112-3470-5106	C/M Multi. 47PF 50V NPO 0603	1
36	C67		0112-3470-5106	C/M Multi. 47PF 50V NPO 0603	1
37	C7		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
38	C71		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
39	C72		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
40	C73		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
41	C74		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
42	C75		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
43	C76		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
44	C77		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
45	C78		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
46	C79		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
47	C80		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
48	C81		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
49	C82		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
50	C83		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
51	C87		0112-3101-5106	C/M Multi. 100PF 50V NPO 0603	1
52	C88		0112-3474-2515	C/M Multi. 0.47UF 25V X7R 0805	1
53	C89		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
54	C90		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
55	C91		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
56	C92		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
57	C93		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
58	C94		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
59	C95		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
60	C96		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
61	C97		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
62	C98		0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
63	C99		0112-3471-5106	C/M Multi. 470PF 50V NPO 0603	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
64		D10	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
65	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
66		D11	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
67	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
68		D12	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
69	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
70	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
71		D18	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
72	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
73		D19	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
74	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
75		D20	0390-5000-1053	GEN. DIODE 1N4148 SMD	1
76	CS		0390-5000-1093	GEN. DIODE FDLL4148 SMD	
77	CS		0390-5000-1223	GEN. DIODE RLS4148 SMD	
78		D4	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
79	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
80		D5	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
81	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
82		D6	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
83	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
84		D7	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
85	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
86		D8	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
87	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
88		D9	0390-5001-9293	DUAL SURFACE DIODES BAV99 SMD (SOT-23)	1
89	SS		0390-5001-9133	DUAL SURFACE DIODE BAV99 SMD (SOT-23)	
90		F1	0185-1402-0003	FUSE 125V/4A SMD (R451004)	1
91		L10	0130-0000-1859	RES. CF 0.0ohm 1/4W J 1206	1
92		L11	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
93		L12	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
94		L13	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
95		L14	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1
96		L15	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
97		L16	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1
98		L17	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1
99		L18	0370-0000-4651	CHIP BEAD CORE 80ohm (MLB-321611-0080P-N1)	1
100		L4	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
101		L5	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
102		Q1	0420-2003-1626	MOSFET P-CH 9A 30V P2003EV SOP-8	1
103		Q10	0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	1
104		Q2	0420-1002-4611	MOSFET N-CH 2N7002 SMD (SOT-23)	1
105		Q9	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
106	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
107		RP1	0141-1001-3851	ARRAY RES. A(X) 1Kohm 4R J 8P	1
108		RP10	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
109		RP11	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
110		RP12	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
111		RP13	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
112		RP14	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
113		RP15	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
114		RP16	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
115		RP17	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
116		RP18	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
117		RP19	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
118		RP2	0141-1001-3851	ARRAY RES. A(X) 1Kohm 4R J 8P	1
119		RP20	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
120		RP21	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
121		RP22	0141-2209-3851	ARRAY RES. A(X) 22ohm 4R J 8P	1
122		RP9	0141-0000-3851	ARRAY RES. A(X) 0.0ohm 4R J 8P	1
123		R11	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
124		R111	0130-1009-0055	RES. CF 10ohm 1/10W J 0603	1
125		R112	0130-1009-0055	RES. CF 10ohm 1/10W J 0603	1
126		R113	0130-1009-0055	RES. CF 10ohm 1/10W J 0603	1
127		R114	0130-4708-0055	RES. CF 4.7ohm1/10W J 0603	1
128		R117	0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
129		R118	0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
130		R119	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
131		R120	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
132		R121	0130-5100-0055	RES. CF 510ohm 1/10W J 0603	1
133		R122	0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
134		R123	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
135		R124	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
136		R125	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
137		R126	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
138		R127	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
139		R128	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
140		R129	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
141		R131	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
142		R136	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
143		R137	0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
144		R141	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
145		R142	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
146		R143	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
147		R145	0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
148		R146	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
149		R147	0130-0000-1859	RES. CF 0.0ohm 1/4W J 1206	1
150		R148	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
151		R149	0111-3103-5116	C/M MULTI 0.01UF 50V X7R 0603	1
152		R150	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
153		R152	0130-1000-1858	RES. CF 100ohm 1/8W J 0805	1
154		R155	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
155		R23	0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
156		R24	0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
157		R25	0130-1004-0055	RES. CF 1.0Mohm 1/10W J 0603	1
158		R34	0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
159		R35	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
160		R36	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
161		R37	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
162		R38	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
163	R39		0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
164	R4		0131-6049-0015	RES MF 60.4ohm 1/10W F 0603	1
165	R40		0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
166	R41		0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
167	R42		0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
168	R43		0130-1004-0055	RES. CF 1.0Mohm 1/10W J 0603	1
169	R45		0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
170	R46		0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
171	R47		0130-8201-0055	RES. CF 8.2Kohm 1/10W J 0603	1
172	R51		0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
173	R55		0130-2209-0055	RES. CF 22ohm 1/10W J 0603	1
174	R56		0130-2209-0055	RES. CF 22ohm 1/10W J 0603	1
175	R57		0130-2209-0055	RES. CF 22ohm 1/10W J 0603	1
176	R6		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
177	R61		0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
178	R62		0130-8201-0055	RES. CF 8.2Kohm 1/10W J 0603	1
179	R63		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
180	R64		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
181	R65		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
182	R66		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
183	R67		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
184	R68		0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
185	R69		0130-1001-0055	RES. CF 1.0Kohm 1/10W J 0603	1
186	R84		0130-1002-0055	RES. CF 10Kohm 1/10W J 0603	1
187	R85		0130-4702-0055	RES. CF 47Kohm 1/10W J 0603	1
188	R86		0130-1003-0055	RES. CF 100Kohm 1/10W J 0603	1
189	R87		0130-2700-0055	RES. CF 270ohm 1/10W J 0603	1
190	R88		0130-1000-0055	RES. CF 100ohm 1/10W J 0603	1
191	R90		0130-0000-0055	RES. CF 0.0ohm 1/10W J 0603	1
192	R93		0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
193	R94		0130-4701-0055	RES. CF 4.7Kohm 1/10W J 0603	1
194	U10		0430-7024-1738	IC Si1161CT100 TQFP100	1
195	U11		0430-3001-1011	IC AT24C02N-10SI-2.7 SMD 8PIN	1

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
196	SS		0430-3000-5017	IC 24LC02B/SN SMD 8PIN	
197		U15	0430-5011-4788	IC ispMACH4128V 100P TQFP	1
198		U2	0430-6005-6004	IC LM1117MPX-ADJ SMD 3PIN (SOT-223)	1
199		U5	0430-5007-5578	IC SM5964C40J 44PIN PLCC	1
200		U5S	0204-1274-4012	PLCC SOCKET 44PIN SMD	1
201		U7	0430-8001-0804	IC DS90C387 SMD 100PIN (MQFP)	1
202	SS		0430-7024-1799	IC EP-387A 100PIN (TQFP)	
203		W4	0302-2000-0306	CONN MALE R/A 30P SMD (MS240430)	1
204		ZD1	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
205		ZD10	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
206		ZD11	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
207		ZD12	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
208		ZD13	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
209		ZD2	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
210		ZD3	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
211		ZD4	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
212		ZD5	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
213		ZD7	0400-0721-5012	ZENER 7.28~7.60V UDZSTE-177.5B 1/5W SOD-323 L-F	1
214		ZD8	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1
215		ZD9	0400-0491-5012	ZENER 4.98~5.20V UDZSTE-175.1B 1/5W SOD-323 L-F	1

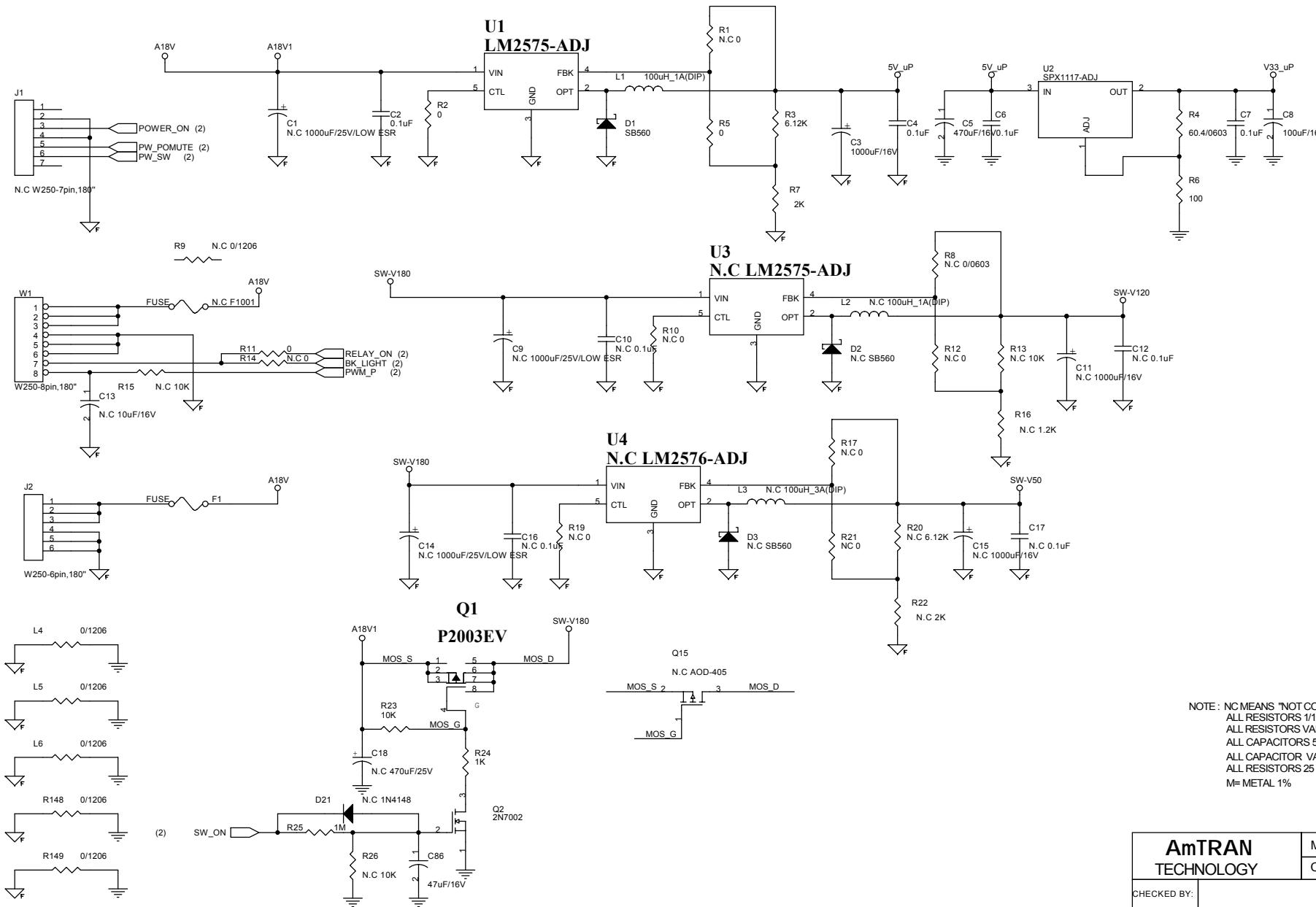
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3842-0032-0189M PDP IR BD ASS'Y (PD-42S) MI

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1	DR1		0440-5000-0170	LED L3-WSURKPBW B/R DIP 3 ϕ	1
2	DR1-H		1701-1500-0940	LED HOLDER (QLE-3)	1
3	DR5		0440-1000-0050	LED L-934ID-F01 3 ψ RED	1
4	DR5-H		1701-1500-0950	LED HOLDER (LED3-3)	1
5	UR1		0980-0200-2130	MODULE. IR RECEIVER (FM-6038LM-5AN)	1
6	WR1		0451-2000-0566	WAFER 2.00MM 5P 90' KINK (STM)	1

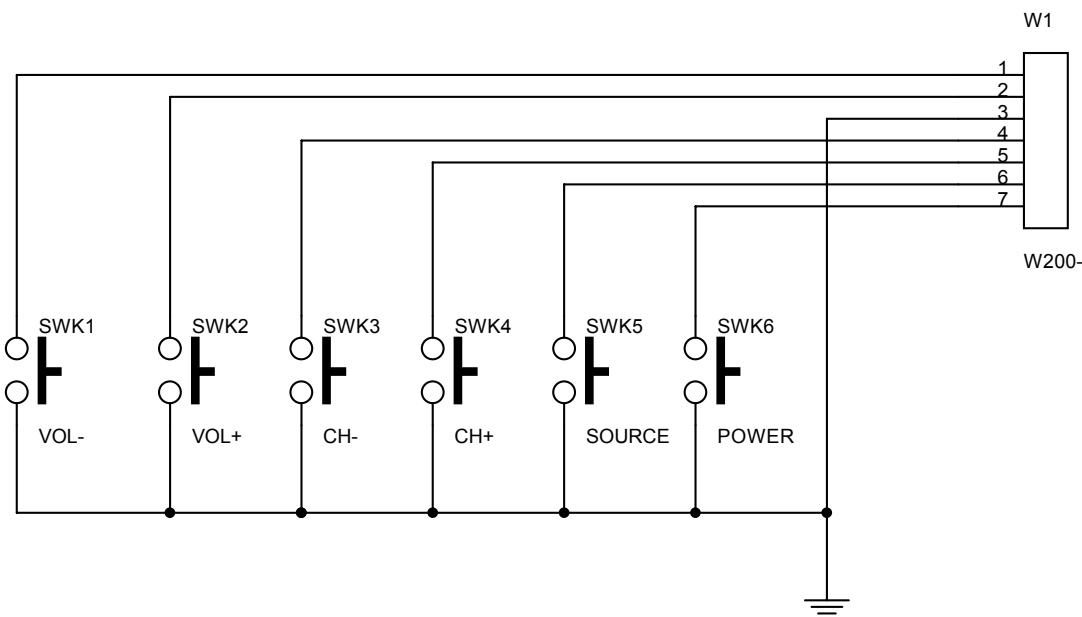
**3842-0032-0189S PDP IR BD ASS'Y (PD-42S) SMD**

ITEM	M/S	LOCATION	PART NO.	DESCRIPTION	QTY
1			0171-1641-0222	PCB IR BD FR4 45.0*22.0*1.6t D (PD-42S)	1
2		CR2	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
3		CR3	0112-3104-5116	C/M Muitl. 0.1uF 50V X7R 0603	1
4		CR4	0111-3475-1135	C/M MULTI 4.7uF 10V Y5V 0805	1
5		LR1	0370-0000-6452	CHIP BEAD CORE 80ohm (MLB-201209-0080A-N2)	1
6		QR1	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
7	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
8		QR2	0410-5000-2610	TRANSISTOR MMBT3906LT1 SMD	1
9	CS		0410-5000-2604	TRANSISTOR MMBT3906 SMD (SOT-23)	
10		QR3	0410-5000-1610	TRANSISTOR MMBT3904LT1 SMD T	1
11	CS		0410-5000-1604	TRANSISTOR 2N3904 SMD T	
12		RR1	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
13		RR10	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
14		RR13	0130-3301-0055	RES. CF 3.3Kohm 1/10W J 0603	1
15		RR17	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
16		RR2	0130-4709-0055	RES. CF 47ohm 1/10W J 0603	1
17		RR4	0130-3301-0055	RES. CF 3.3Kohm 1/10W J 0603	1
18		RR5	0130-4700-0055	RES. CF 470ohm 1/10W J 0603	1
19		RR6	0130-3301-0055	RES. CF 3.3Kohm 1/10W J 0603	1
20		RR7	0130-3301-0055	RES. CF 3.3Kohm 1/10W J 0603	1
21		RR8	0130-3301-0055	RES. CF 3.3Kohm 1/10W J 0603	1
22		UR2	0430-1004-7035	IC NC7SZ14M5 5PIN SOT-23	1
23		ZDR1	0400-0491-5012	ZENER 4.98~5.20V UDVZSTE-175.1B 1/5W SOD-323 L-F	1
24		ZDR2	0400-0491-5012	ZENER 4.98~5.20V UDVZSTE-175.1B 1/5W SOD-323 L-F	1
25		ZDR3	0400-0491-5012	ZENER 4.98~5.20V UDVZSTE-175.1B 1/5W SOD-323 L-F	1



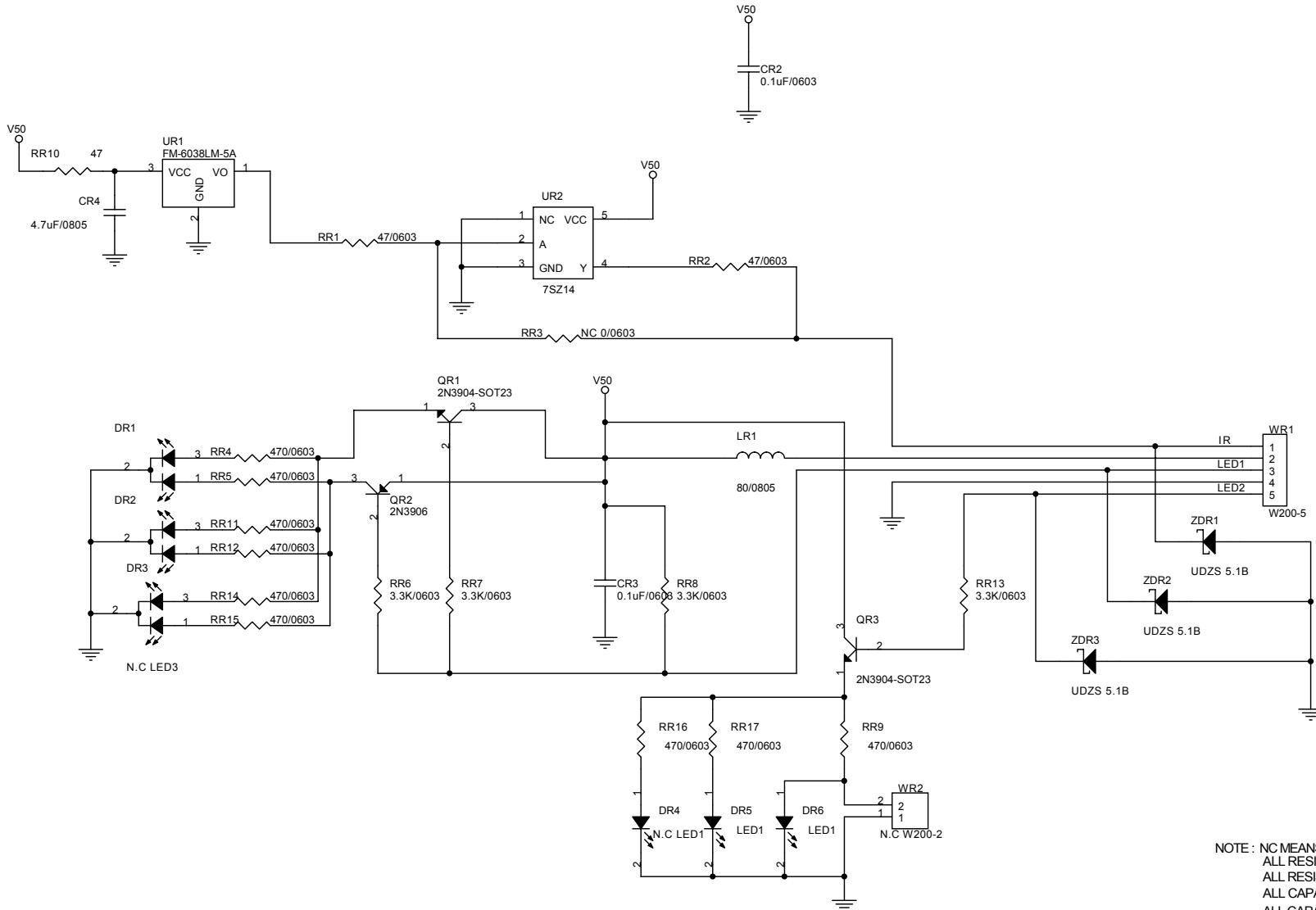
NOTE: NC MEANS "NOT CONNECTED ON PCB BOARD"  
ALL RESISTORS 1/10 WATT 5% UNLESS NOTED.  
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
ALL CAPACITOR VALUES IN  $\mu$ F UNLESS NOTED.  
ALL RESISTORS 25 VOLT IN 1.1 $\mu$ F UNLESS NOTED.  
M= METAL 1/4

AmTRAN TECHNOLOGY		MODEL	PD-42S (3842-0012-0154)		
		CIRCUITY	POWER		
CHECKED BY:		PCB P/N: ECN NO:	0171-2141-0062 APCN04090017	Sheet REV:	1 of 8 02
APPROVED BY:		SCH FILE PCB FILE	PD42S-C2.DSN PD42S.M2.PCB	PCB REV:	02
				DATE: Friday, October 15, 2004	



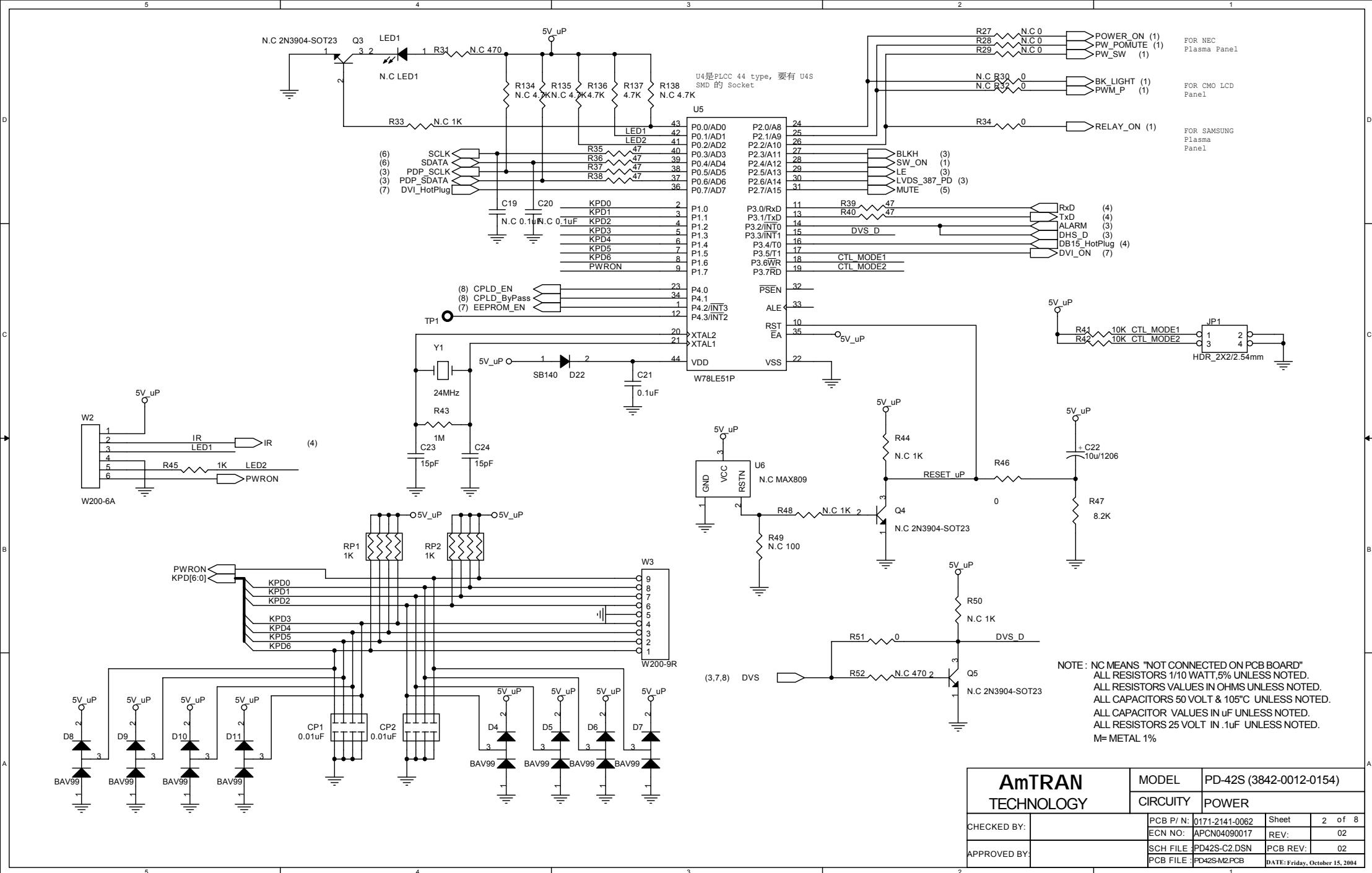
NOTE: NC MEANS "NOT CONNECTED ON PCB BOARD"  
 ALL RESISTORS 1/10 WATT, 5% UNLESS NOTED.  
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
 ALL CAPACITOR VALUES IN  $\mu$ F UNLESS NOTED.  
 ALL RESISTORS 25 VOLT IN .1 $\mu$ F UNLESS NOTED.  
 M= METAL 1%

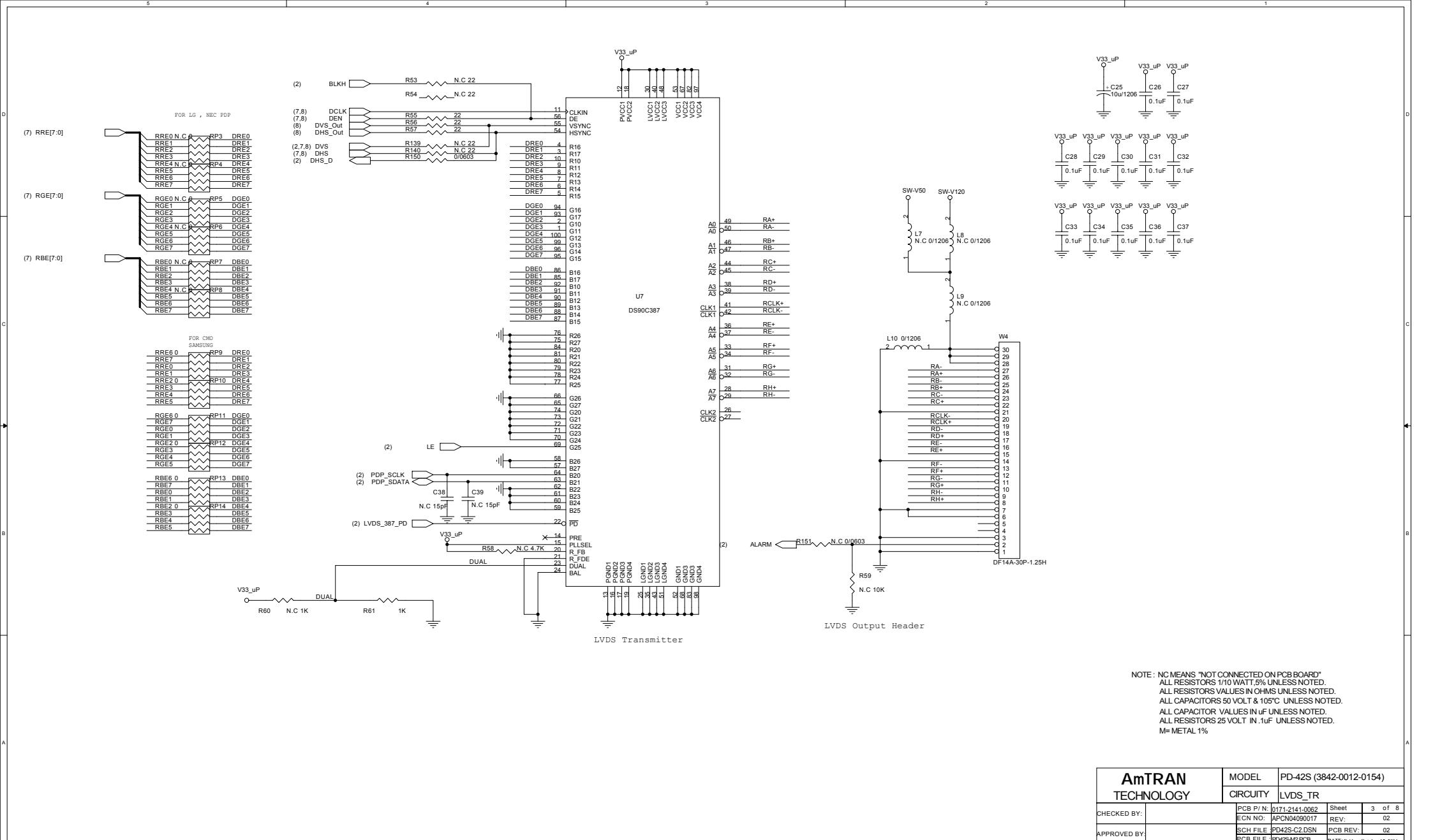
AmTRAN TECHNOLOGY		MODEL	PD42S (3842-0022-0156)	
		CIRCUITY	KEYPAD	
CHECKED BY:		PCB P/ N:	0170-1740-1181	Sheet 1 of 1
		ECN NO:	APCN04090017	REV: 02
APPROVED BY:		SCH FILE	PD42S-C2.DSN	PCB REV: 01
		PCB FILE	PD42S-D1.PCB	DATE: Friday, October 15, 2004



NOTE : NC MEANS "NOT CONNECTED ON PCB BOARD"  
ALL RESISTORS 1/10 WATT, 5% UNLESS NOTED.  
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
ALL CAPACITOR VALUES IN  $\mu$ F UNLESS NOTED.  
ALL RESISTORS 25 VOLT IN 1.1uf UNLESS NOTED.  
M= METAL 1%

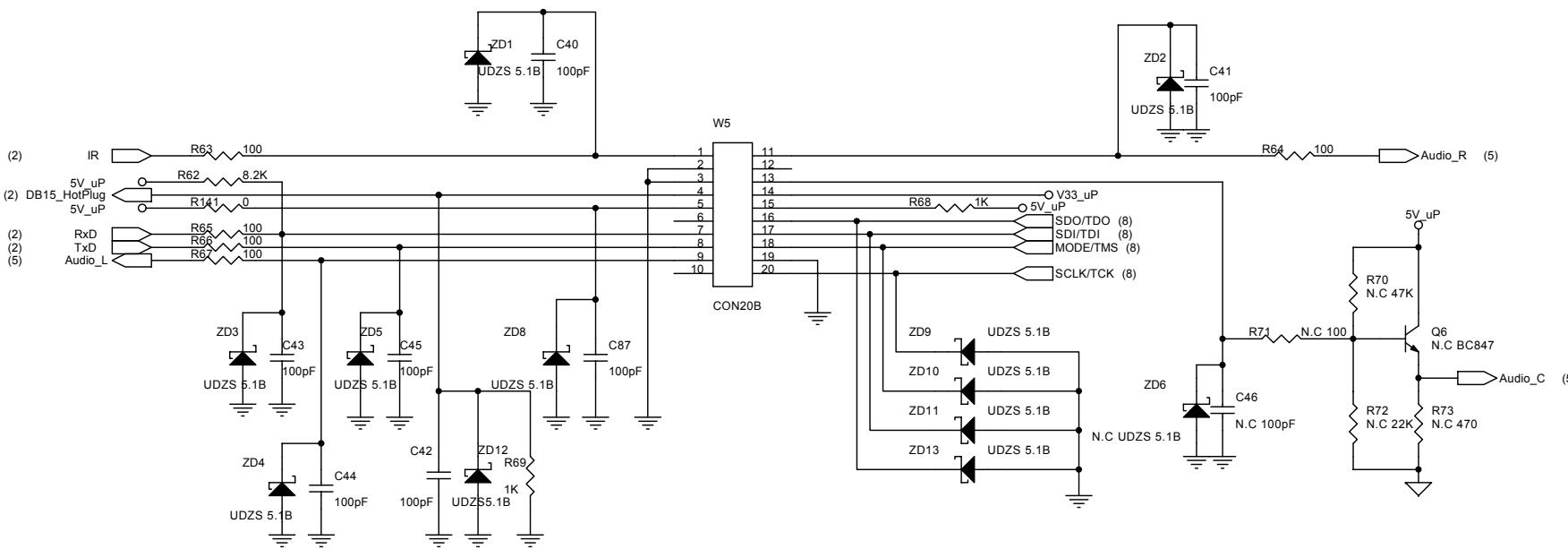
<b>AmTRAN TECHNOLOGY</b>		MODEL	PD-42S (3842-0032-0189)		
		CIRCUITY	IR		
CHECKED BY:	PCB P/N: 0171-1641-0222		Sheet	1	of 1
	ECN NO: APCN04090017		REV:	02	
APPROVED BY:	SCH FILE: PD42S-C2.DSN		PCB REV:	02	
	PCB FILE: PD42S-IR2.PCB		DATE:	Friday, October 15, 2004	





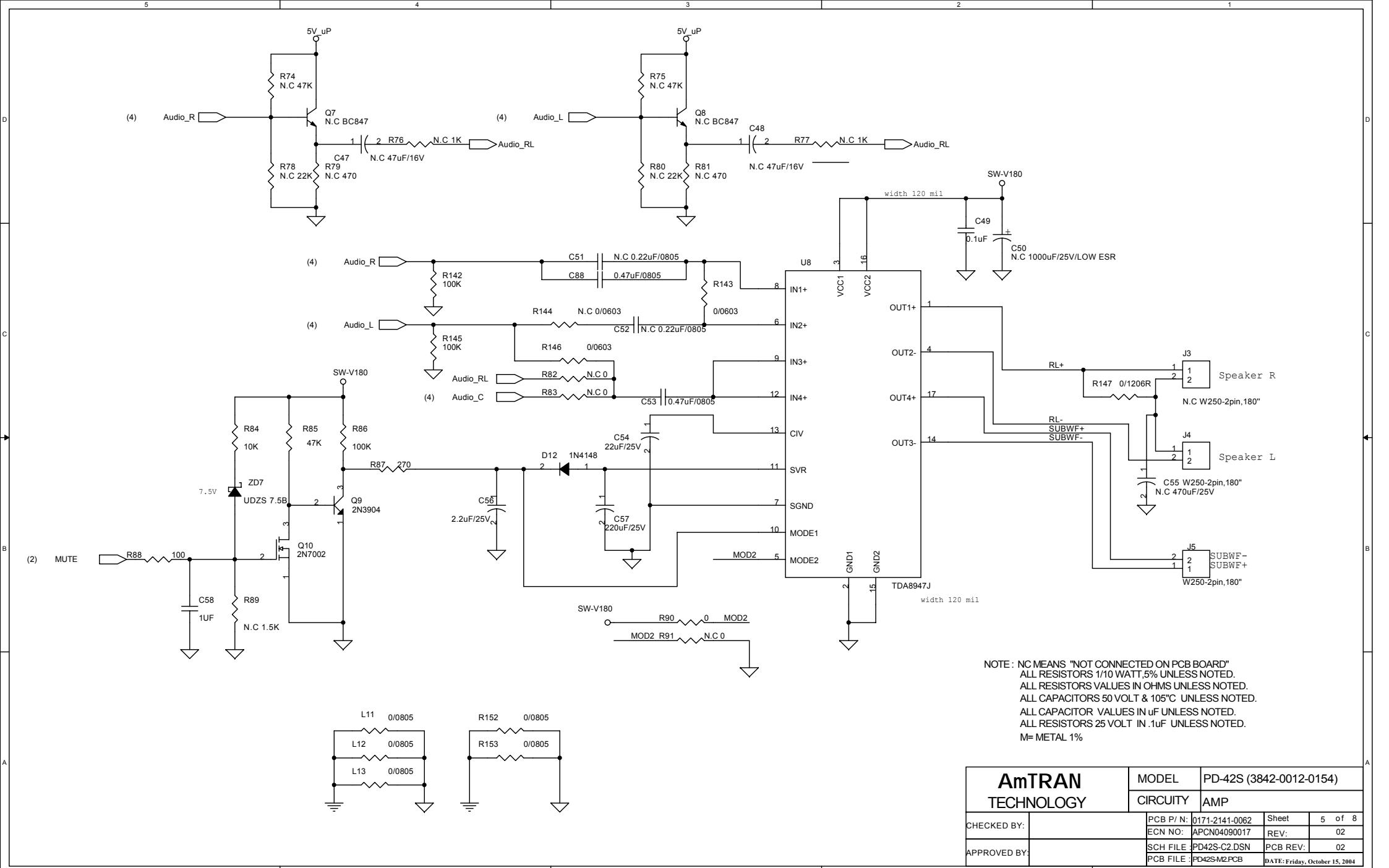
NOTE: NC MEANS "NOT CONNECTED ON PCB BOARD"  
 ALL RESISTORS 1/10 WATT 5% UNLESS NOTED.  
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
 ALL CAPACITOR VALUES IN uF UNLESS NOTED.  
 ALL RESISTORS 25 VOLT IN 1.uF UNLESS NOTED.  
 M= METAL 1%

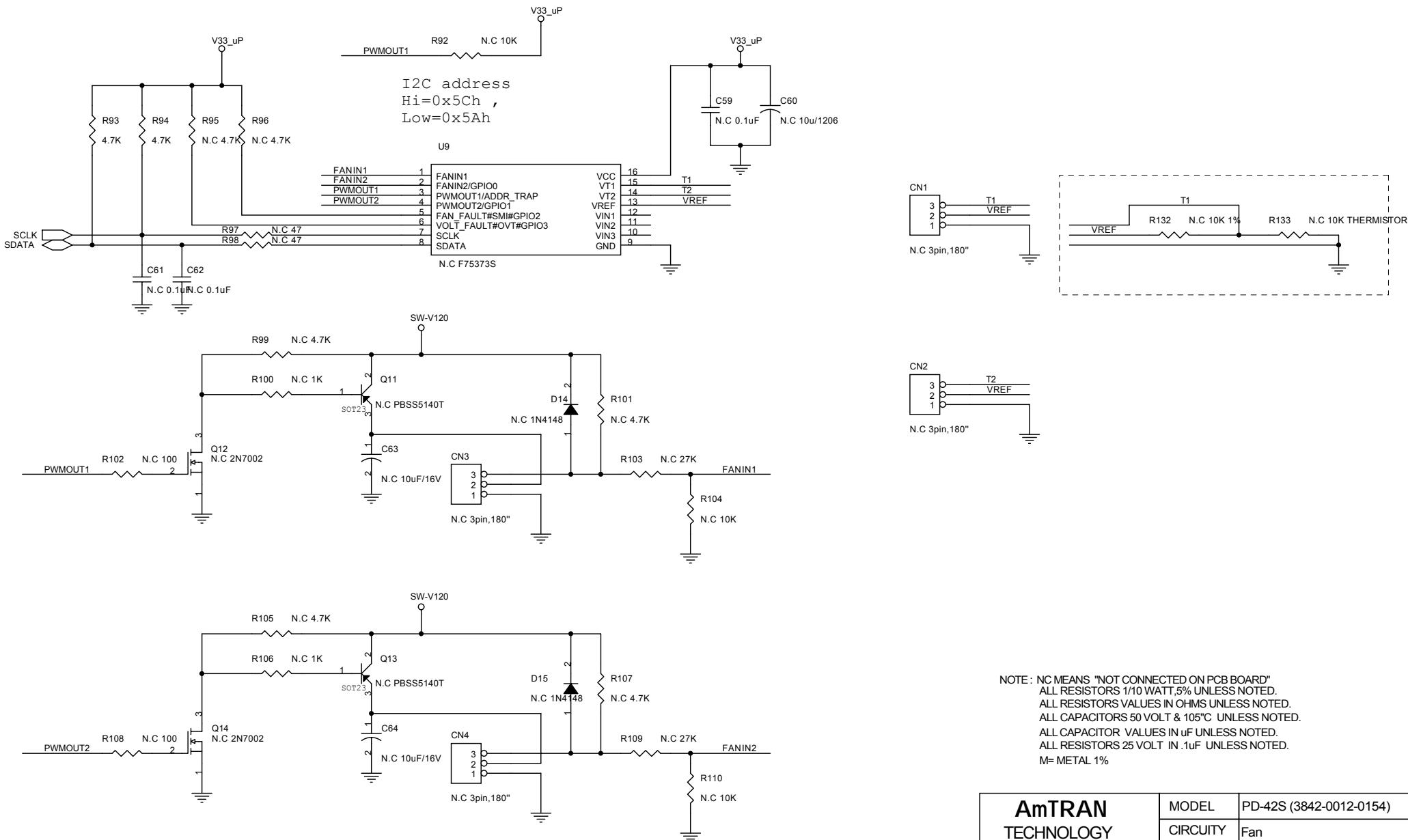
AmTRAN TECHNOLOGY		MODEL	PD-42S (3842-0012-0154)
CIRCUITY		LVDS_TR	
CHECKED BY:		PCB P/N: 0371-2141-0062	Sheet 3 of 8
		ECN NO: APCN0499017	REV: 02
APPROVED BY:		SCH FILE PD42S-C2.DSN	PCB REV: 02
		PCB FILE PD42S-M2.PCB	DATE: Friday, October 15, 2004



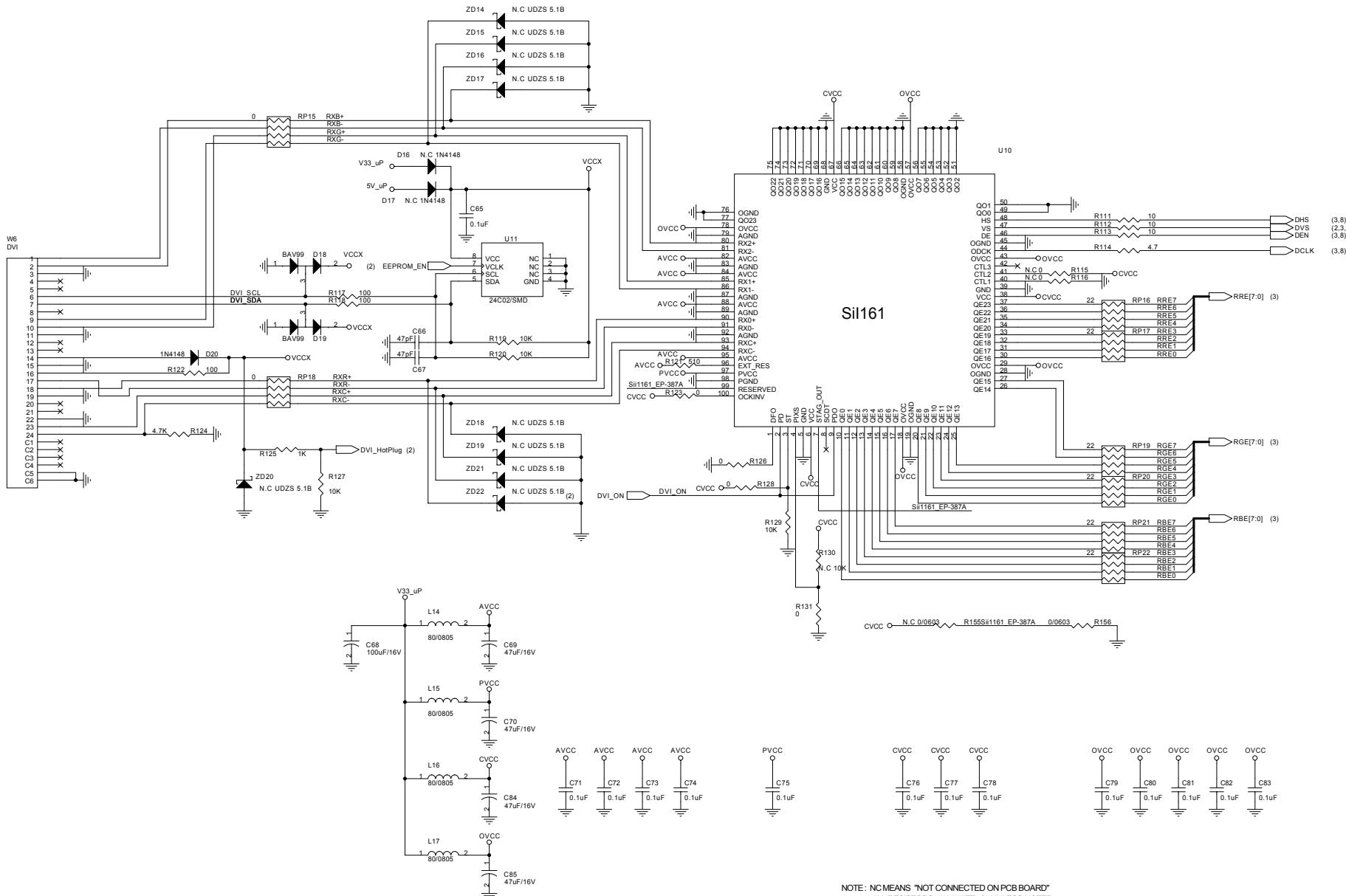
NOTE: NC MEANS "NOT CONNECTED ON PCB BOARD"  
 ALL RESISTORS 1/10 WATT, 5% UNLESS NOTED.  
 ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
 ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
 ALL CAPACITOR VALUES IN  $\mu$ F UNLESS NOTED.  
 ALL RESISTORS 25 VOLT IN .1 $\mu$ F UNLESS NOTED.  
 M= METAL 1%

AmTRAN TECHNOLOGY		MODEL	PD-42S (3842-0012-0154)	
		CIRCUITY	D-TYPE	
CHECKED BY:		PCB P/ N:	0171-2141-0062	Sheet 4 of 8
		ECN NO:	APCN04090017	REV: 02
APPROVED BY:		SCH FILE	PD42S-C2.DSN	PCB REV: 02
		PCB FILE	PD42S-M2PCB	DATE: Friday, October 15, 2004



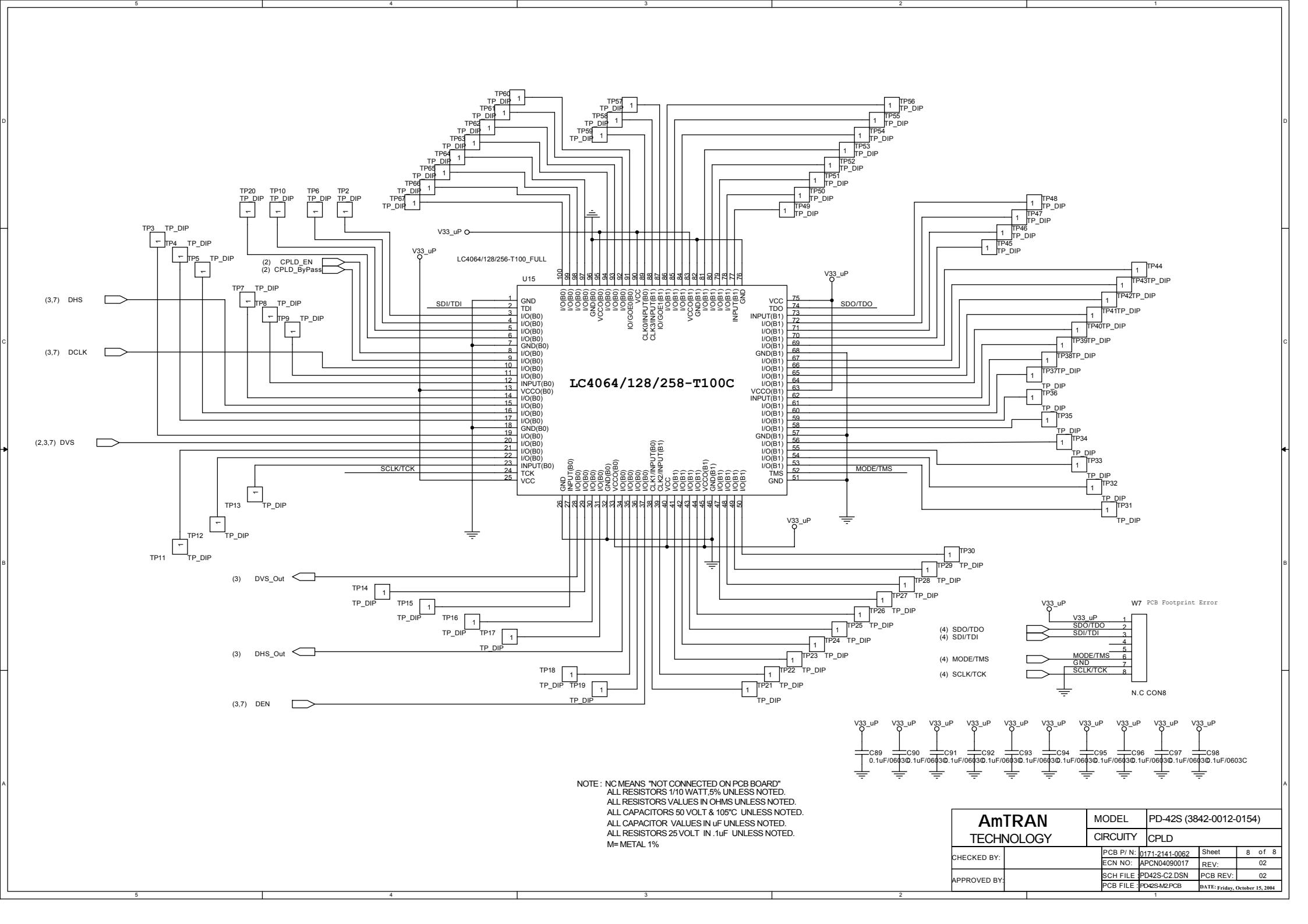


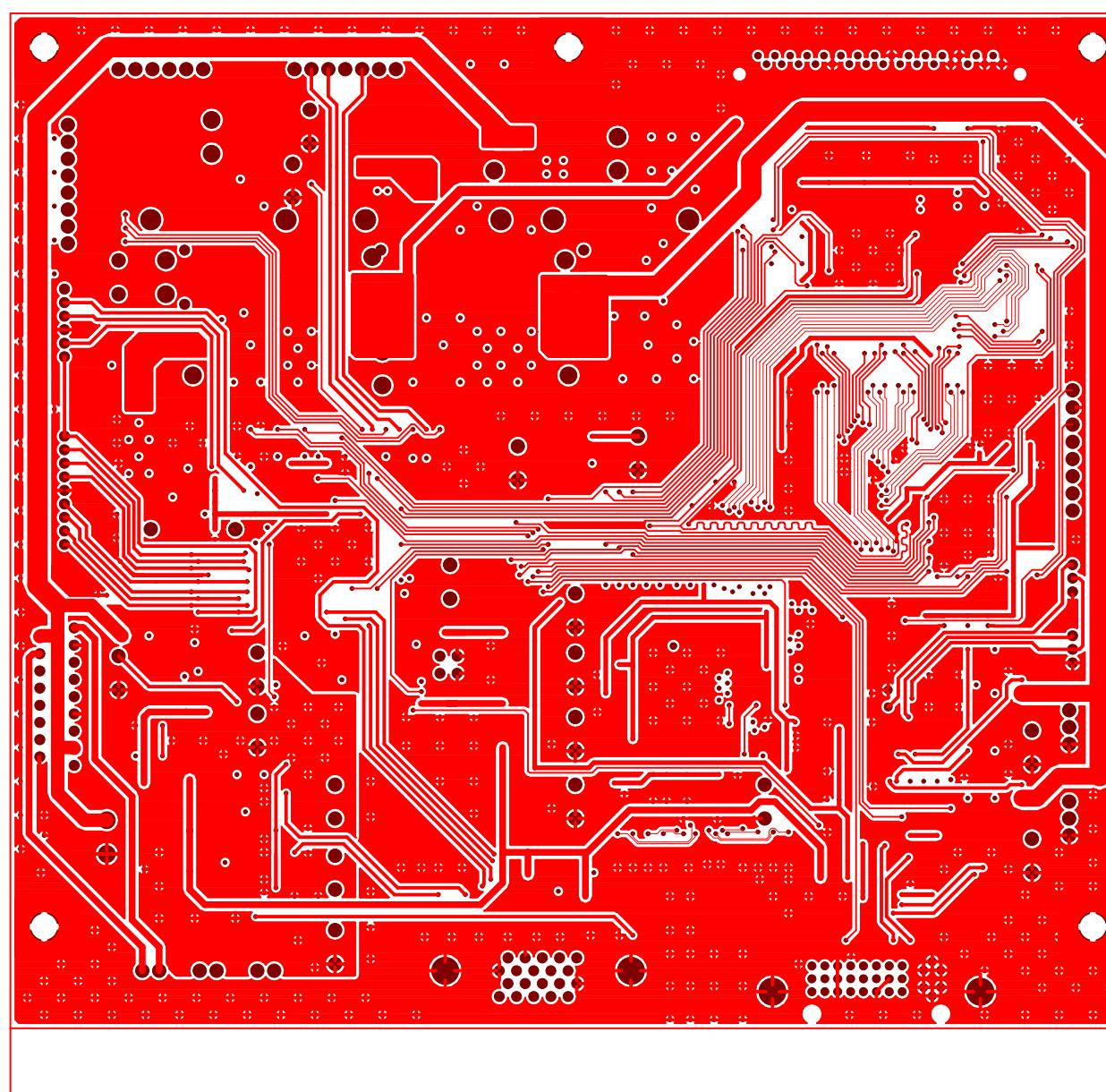
<b>AmTRAN TECHNOLOGY</b>	<b>MODEL</b>	PD-42S (3842-0012-0154)		
	<b>CIRCUITY</b>	Fan		
CHECKED BY:		PCB P/N: 0171-2141-0062	Sheet	6 of 8
		ECN NO: APCN04090017	REV:	02
APPROVED BY:		SCH FILE PD42S-C2.DSN	PCB REV:	02
		PCB FILE PD42S-M2PCB	DATE:	Friday, October 15, 2004



NOTE: NC MEANS "NOT CONNECTED ON PCB BOARD"  
ALL RESISTORS 1/10 WATT, 5% UNLESS NOTED.  
ALL RESISTORS VALUES IN OHMS UNLESS NOTED.  
ALL CAPACITORS 50 VOLT & 105°C UNLESS NOTED.  
ALL CAPACITOR VALUES IN  $\mu$ F UNLESS NOTED.  
ALL RESISTORS 25 VOLT IN. 1 $\mu$ F UNLESS NOTED.  
M= METAL 1%

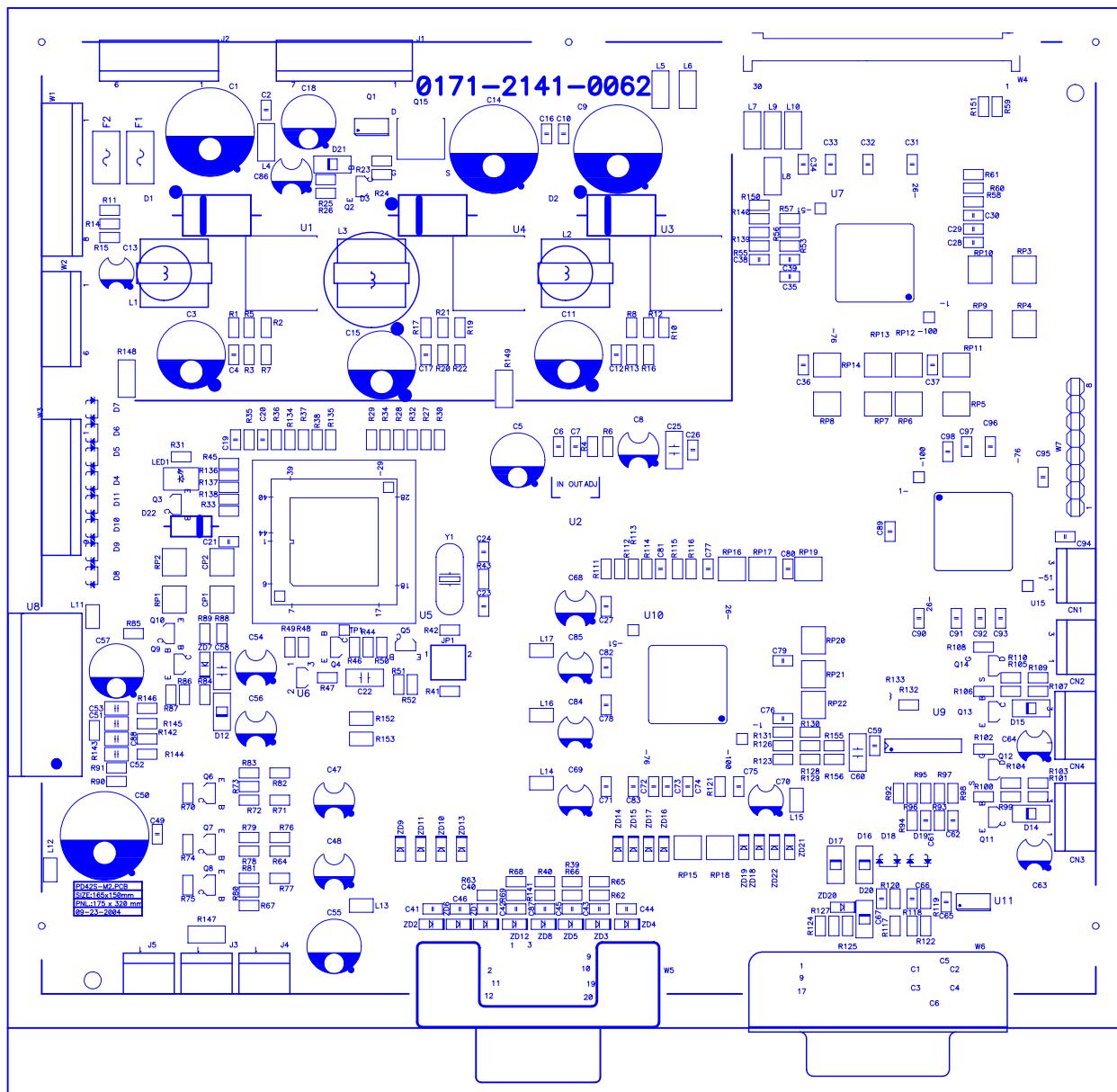
<b>AmTRAN TECHNOLOGY</b>	<b>MODEL</b>	PD-42S (3842-0012-0154)		
	<b>CIRCUITY</b>	SII161		
CHECKED BY:	PCB P/N ECN NO.	0171-2141-0002 APC04090017	Sheet REV.	7 of 8 02
APPROVED BY	SCH FILE PCB FILE	PD42S-C2DSN PD42S-MCPCB	PCB REV.	02
			DATE: Friday, October 15, 2004	

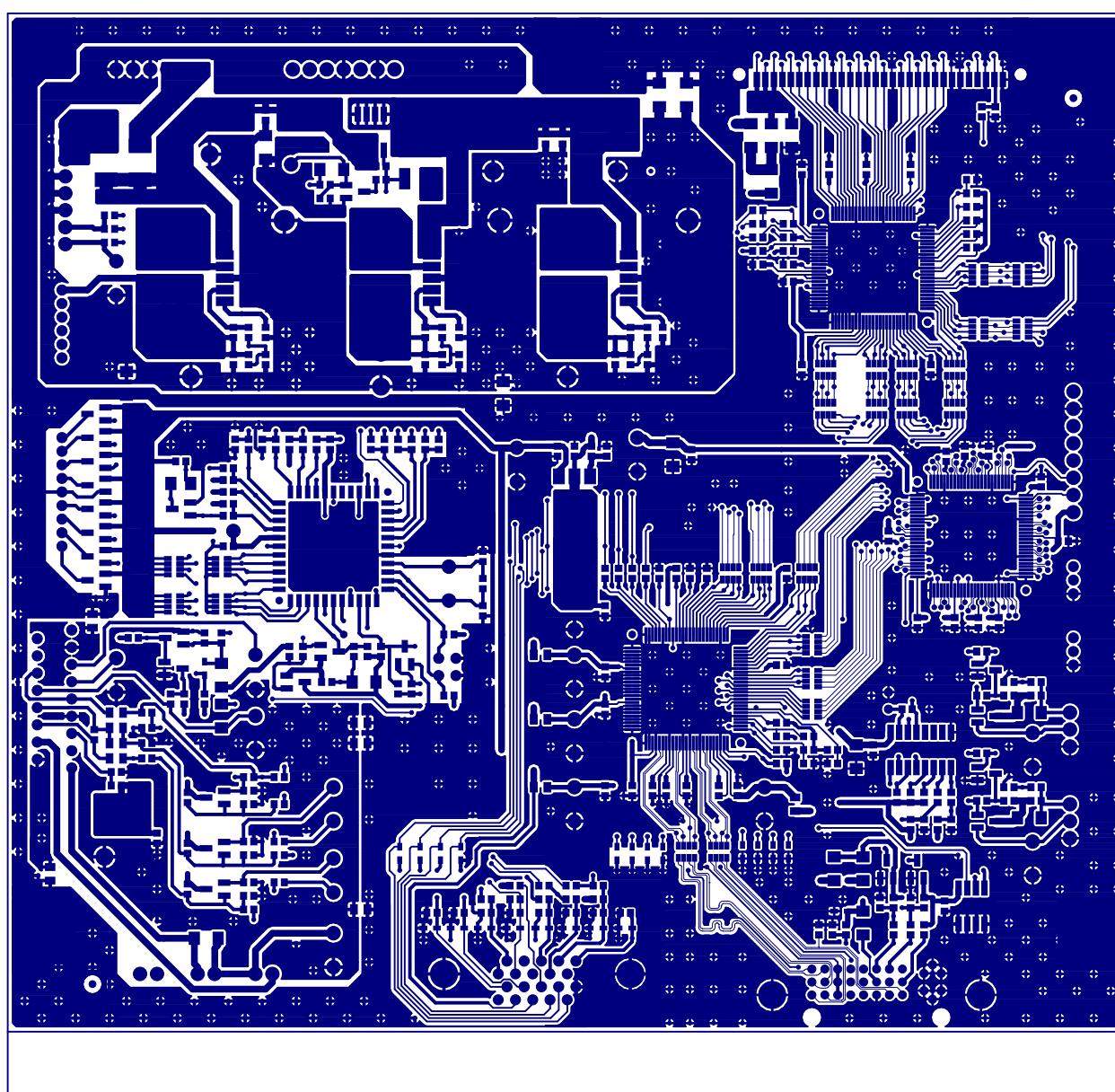




AmTRAN Co.,Ltd  
0171-2141-0062  
FR4 1/1Z 1.6T  
PD42S-M2.PCB  
SIZE:165x150mm  
PNL.:175x320mm  
Q'TY: 80PCS  
DATE:09-23-04  
REC:10-01-04

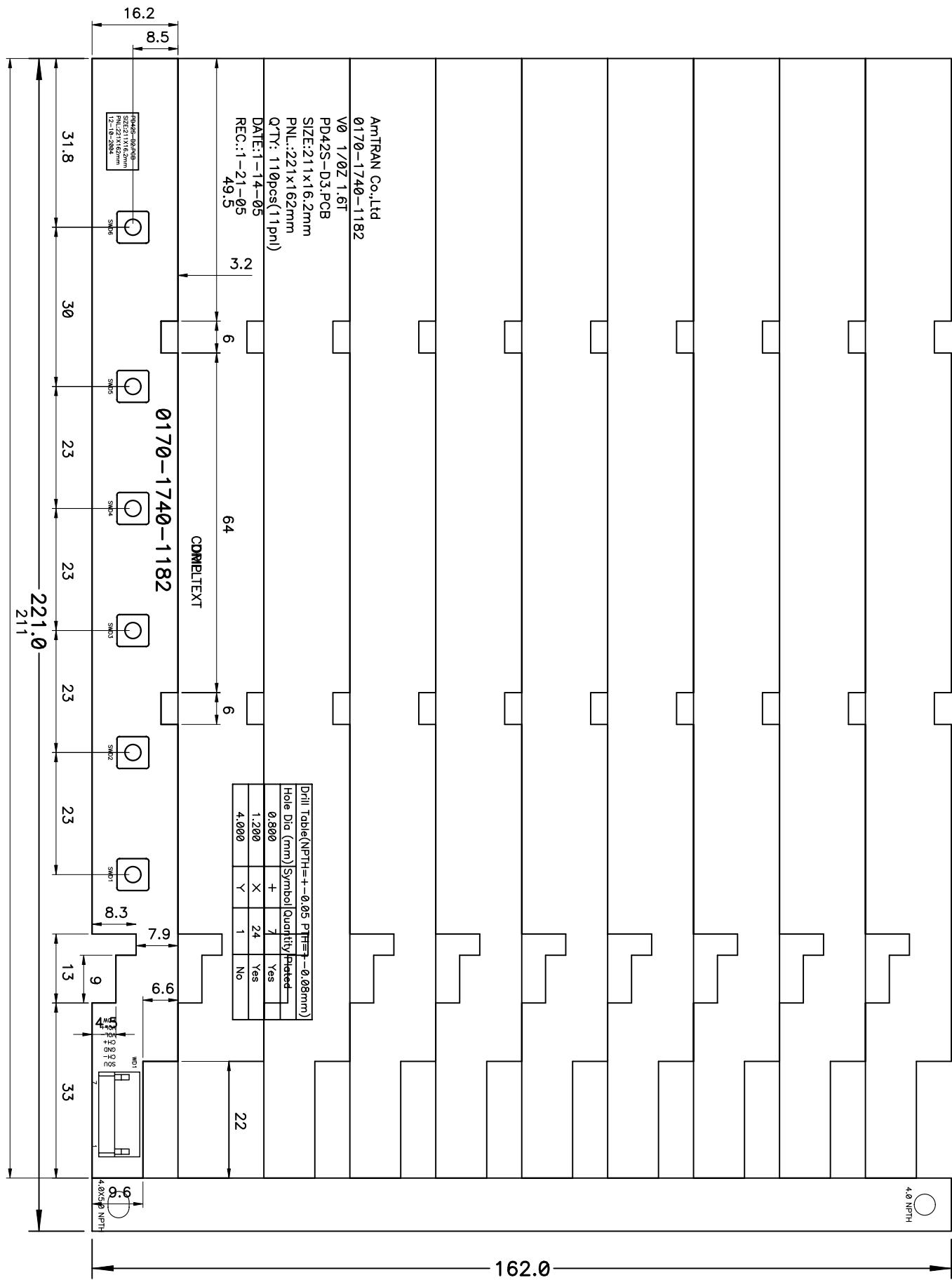
SOLDER TRACE

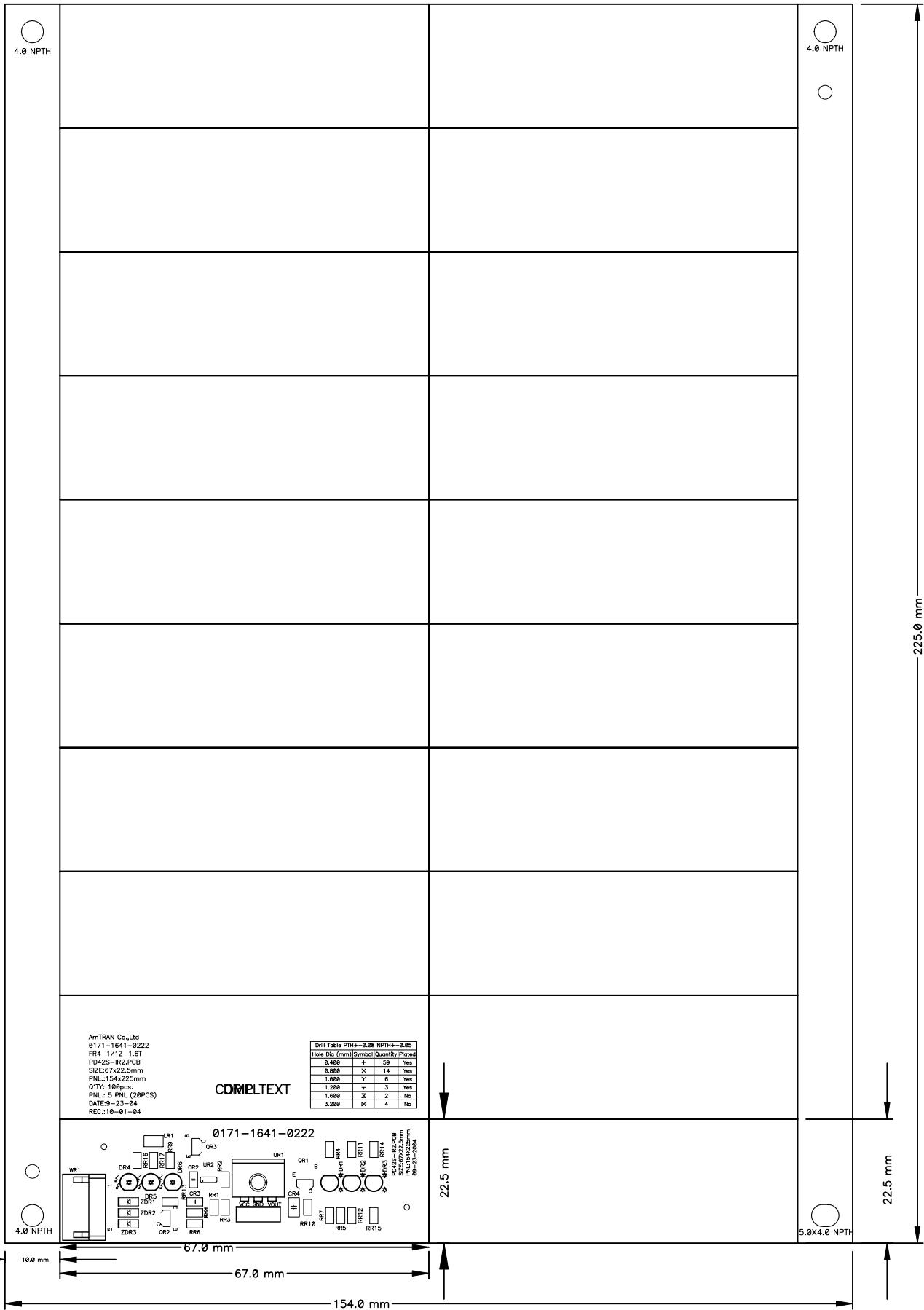




AmTRAN Co.,Ltd  
0171-2141-0062  
FR4 1/1Z 1.6T  
PD42S-M2.PCB  
SIZE:165x150mm  
PNL:175x320mm  
Q'TY: 80PCS  
DATE:09-23-04  
REC:10-01-04

COMP TRACE



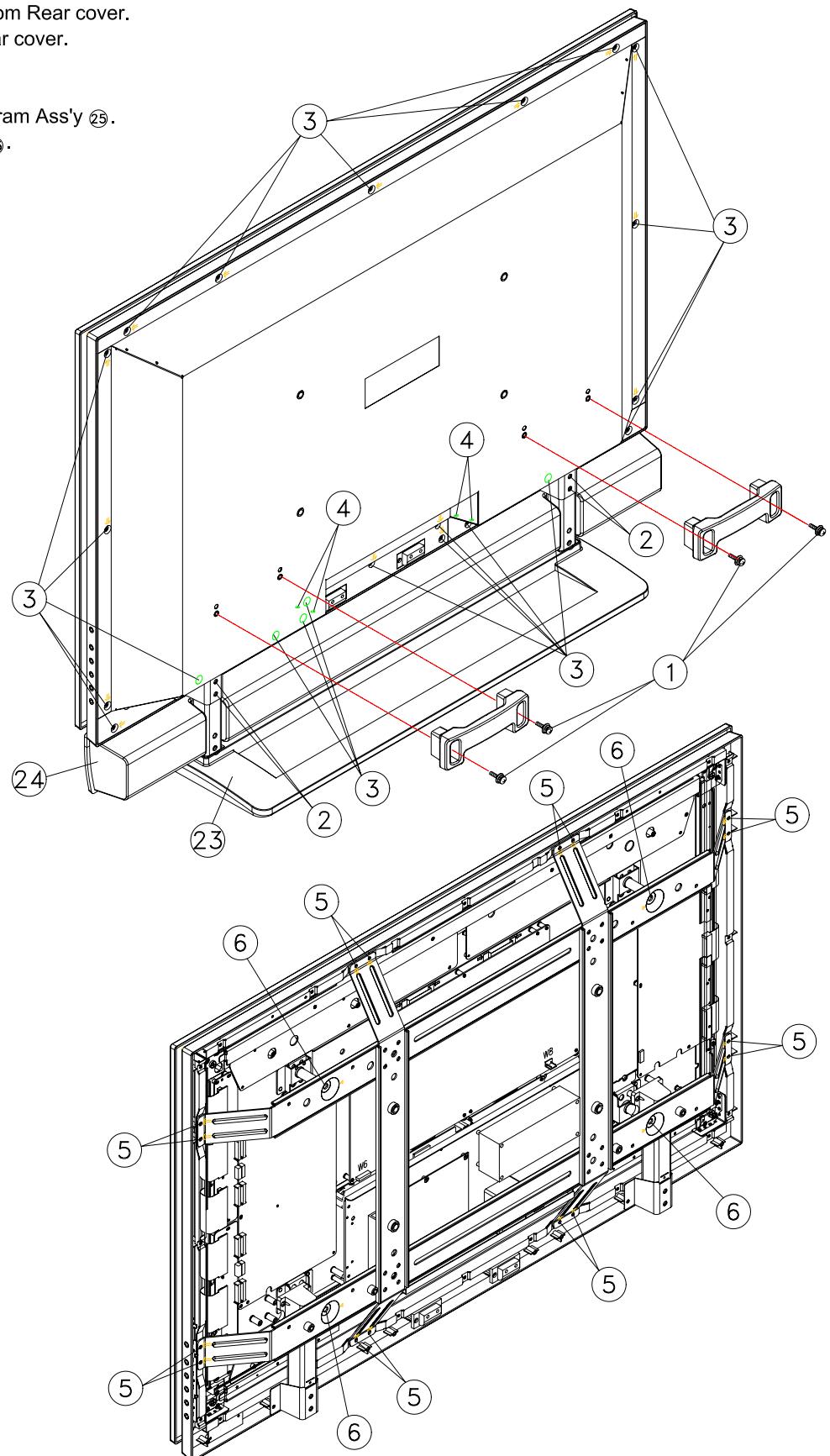


## DISASSEMBLY INSTRUCTIONS

### 1. REAR COVER ASS'Y REMOVAL

*Note: Spread a mat underneath to avoid damaging the Plasma surface.*

- 1) Remove four screws ① from two handles.
- 2) Separate two handles.
- 3) Remove four screws ② from two flat metal.
- 4) Separate the Base Ass'y ③ and the speaker lower Ass'y ④.
- 5) Remove twenty-two screws ⑤ from Rear cover.
- 6) Remove four screws ⑥ from Rear cover.
- 7) Separate the I/O BKT.
- 8) Remove sixteen screws ⑦ and four large screws ⑧ from Main Fram Ass'y ⑨.
- 9) Separate the Main Fram Ass'y ⑨.



### 3. PCB SUPPORTOR ASS'Y REMOVAL

- 1) Remove the connector ⑦ (W8) of the switch cable.
- 2) Remove the connector ⑧ (W3) of the LVDS 1 signal cable.
- 3) Remove the connector ⑨ (W1) of the LVDS 2 signal cable.
- 4) Remove the connector ⑩ (W10) of the IR cable.
- 5) Remove the connector ⑪ (W4) of the keypad cable.
- 6) Remove the connector ⑫ ⑬ (W5)(W6) of the speaker switch cable.
- 7) Remove the connector ⑭ (W7) of the power cable.
- 8) Remove the screw ⑮ from Plasma Ass'y.
- 9) Remove the screw ⑯ from Main BD Ass'y.
- 10) Remove six screws ⑯, three screws ⑰ and four screws ⑱ ⑲ from the PCB supportor.
- 11) Separate the PCB supportor Ass'y.

### 2. MAIN BD ASS'Y AND POWER BD ASS'Y REMOVAL

- 1) Remove the connector ⑳ (W9) of the Power BD cable.
- 2) Remove the connector ㉑ (W2) of the Main BD cable.
- 3) Remove ten screws ㉒ from Main BD and Power BD.
- 4) Separate the Main BD and Power BD .

